

REDACTED

LB00026

United States Environmental Protection Agency  
Region 4



35<sup>TH</sup> AVENUE REMOVAL INVESTIGATION  
BIRMINGHAM, ALABAMA  
JEFF CROWLEY, ON-SCENE COORDINATOR

FIELD SAMPLING LOGBOOK

Book 1 of 1

Inclusive Dates: 01/07/2013 -

List of Sampling Team in logbook:

Name	Initials	Organization/Duties
(b) (6)		<u>OTIE</u> , Team Leader
(b) (6)		<u>MOS</u>

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## Sampling Procedures and Methodology

Unless specified elsewhere in this logbook, all soil samples will be collected in accordance with the EPA Science and Ecosystem Division (SED) Field Branches Quality System and Technical Procedures (FBQSTP) Soil Sampling (SESDPROC-300-R2) based on the following design.

The total number of 5-point composite surface soil samples (0-4 inches below ground surface) to be collected from each property will be based on the lot size as follows:

- For residential properties with a total parcel lot size equal to or less than ( $\leq$ ) 5,000 square feet - the front yard and back yards of each property. If the property has a substantial side yard (primarily corner lots), then one composite soil sample may also be collected from the side yard. Aliquots will be collected away from influences with drip lines and burn areas in a five dice configuration (each of the four corners and the center).
- For residential properties with a total parcel lot size greater than ( $>$ ) 5,000 square feet and  $\leq$  1/4-acre - the property should be divided into two roughly equal surface areas. If the property has a substantial side yard (primarily corner lots), then one composite soil sample may be collected from the side yard with the remainder of the property being divided into two roughly equal surface areas. Aliquots will be collected away from influences including drip lines and burn areas with reasonably equal spacing between aliquots.
- Residential properties over 1/4-acre in parcel lot size will be divided into 1/4-acre sections. When dividing any such property with a substantial side yard (primarily corner lots), one composite soil sample may be collected from the side yard. Aliquots will be collected away from influences including drip lines and burn areas in a five dice configuration, if possible, with reasonably equal spacing between aliquots.

Grab surface soil samples will be collected from apparent exposure pathways where active play sets are located.

Three-point composite surface soil samples will be collected from distinct vegetable gardens from each residential property.

Samples shall not be collected under paved areas or under stationary fixed structures.

Grab sediment samples will be collected in accordance with EPA SED FBSTP Sediment Sampling (SESDPROC-200-R2) from any surface water drainage pathways located on individual properties, as directed by the OSC, and in and along the banks of the 34<sup>th</sup> Street North Ditch.

Each surface soil or sediment sample should be homogenized in a stainless steel bowl. One 8-ounce jar will be filled and the remaining sample material will be placed in zip-top bags for screening. Information identifying the location, sample, and date/time will be inscribed on each jar and zip-top bag.

All sample bags will be screened for metals in accordance with SED FBQSTP Field XRF Measurement (SESDPROC-107-R2) using a Niton XRF. The sample will be dried before sieving or analysis is performed. Once the sample has dried, the sample will be divided into two subsamples; one subsample will be sieved through a #10 screen (2 mm) and the other will be left unsieved. Once separated into sieved and unsieved samples, the zip-top bag will be compressed by folding over the excess plastic and removing as much air and space from the sample as possible. The XRF will be placed directly on the exterior of the compressed sample in the plastic zip-top bag to measure metals concentrations. Following XRF screening, the unsieved portion of the sample material will be containerized into one 8-ounce jars and the sieved portion of the sample will be containerized into another 8-ounce jar.

Based on the site DQOs the 8-ounce jars of surface soil and sediment samples should be submitted to PEL, Tampa, Florida (a NELAC certified laboratory) for low level PAH, and/or TCL SVOC, RCRA metals, PCB, and/or Hexavalent Chromium analysis. RCRA metals will be analyzed from both the sieved and unsieved portions of the sample. All other analysis will be conducted on the unsieved portion.

The location of each aliquot will also be logged in accordance with SESD FBQSTP Global Positioning System (SESDPROC- 110-R3) using a Trimble GPS.

A description of the color and texture of the aliquot material will be recorded in each box.

The **station ID** for each location will consist of seven characters, beginning with the six digit Property ID designation for the property followed by a alphabetic letter beginning with "A".

e.g. CV0001A would be the station ID for the front yard 5-pt composite sample collected at the property with Property ID CV0001.

The **sample ID** for each sample is the station ID with "CS" (composite soil), "GS" (grab soil), "SD" (sediment), or "SW" (surface water) appended, therefore, the sample ID for this sample would be CV0001A-CS. Co-located duplicates will be designated by appending a "D" to the end of the sample ID. Pan splits will be identified by appending an "SP" to the end of the sample ID.



(b) (6)

ADDRESS

PROPERTY ID:

HP-0185

DATE:

01/07/2013

ARRIVAL TIME:

12:15

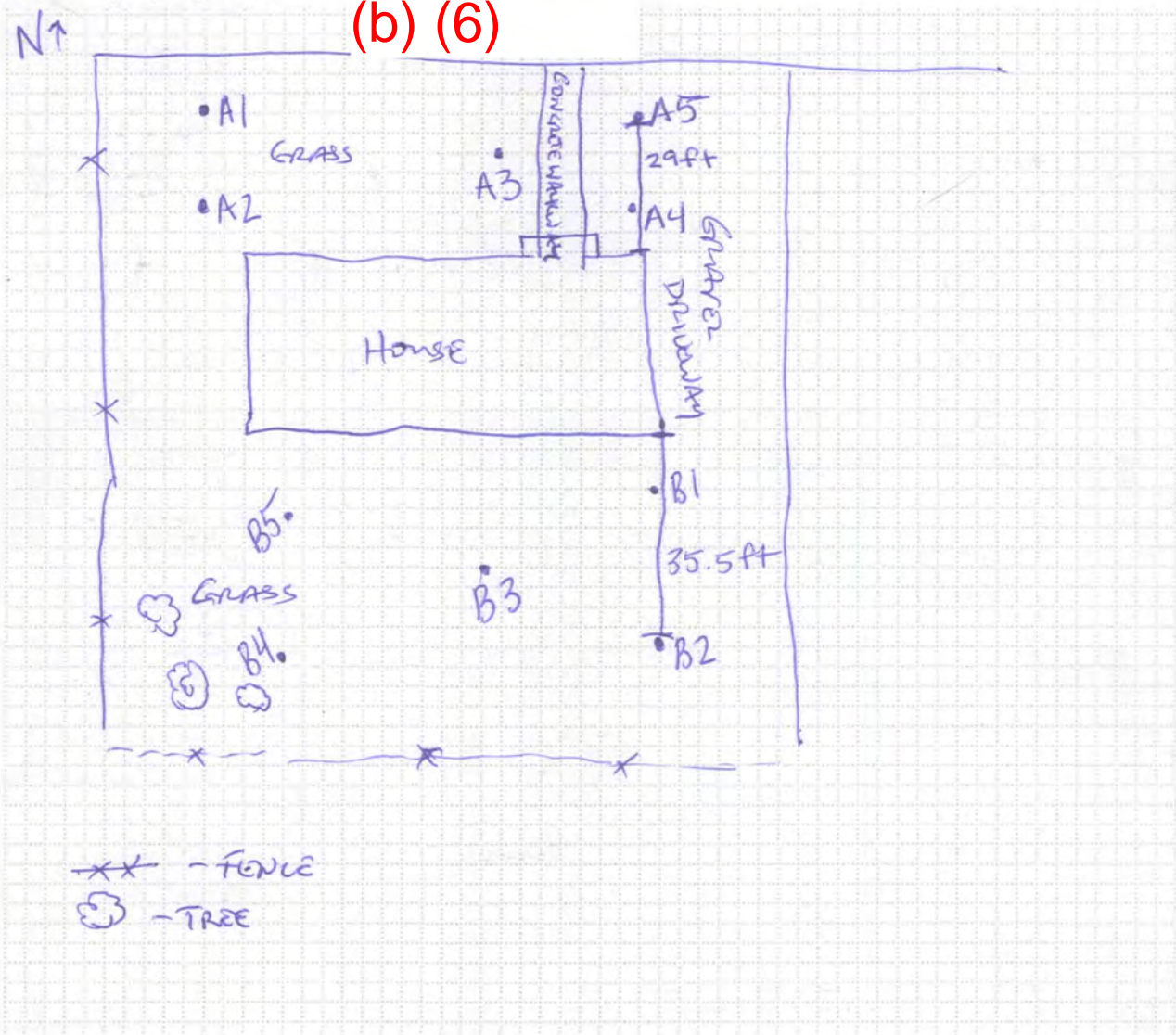
Other pertinent information (weather conditions, etc.):

~55°F, sunny

PROPERTY COMMENTS:

residential house

Grid for property sketch



STATION ID: HP-0185SAMPLE ID: HP-0185A-CSSAMPLE COLLECTION TIME: 13:45

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

front yardCollection: Composite or GrabMS/MSD? Y or NField Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: HP-0185A-CSD

GPS Coordinates: Trimble [ <input checked="" type="checkbox"/> ] Instrument #: <u>018165</u>		Logged? <u>(Y)</u> or N
Aliquot #1: Latitude: <u>33.56570355</u>	N Longitude <u>86.79230425</u>	W
Media description: <u>brown, silty clay, damp</u>		
Aliquot #2 Latitude: <u>33.56568664</u>	N Longitude <u>86.79230159</u>	W
Media description: <u>dark brown silty clay, damp</u>		
Aliquot #3: Latitude: <u>33.56571020</u>	N Longitude <u>86.79224807</u>	W
Media description: <u>black silty clay w/ bricks and coal fragment</u>		
Aliquot #4: Latitude: <u>33.56568941</u>	N Longitude <u>86.79219179</u>	W
Media description: <u>black silty clay w/ bricks and coal fragments</u>		
Aliquot #5: Latitude: <u>33.56573489</u>	N Longitude <u>86.79219758</u>	W
Media description: <u>black silty clay w/ bricks and coal fragments</u>		

STATION ID: HP-0185SAMPLE ID: HP-0185B-CSSAMPLE COLLECTION TIME: 14:15

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

back yardCollection: Composite or GrabMS/MSD? Y or (N)Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_

GPS Coordinates: Trimble [ <input checked="" type="checkbox"/> ] Instrument #: <u>018165</u>		Logged? <u>(Y)</u> or N
Aliquot #1: Latitude: <u>33.56553356</u>	N Longitude <u>86.79220728</u>	W
Media description: <u>black silty clay, damp w/ coal fragments</u>		
Aliquot #2 Latitude: <u>33.56545323</u>	N Longitude <u>86.79221550</u>	W
Media description: <u>black silty clay, damp w/ coal fragments</u>		
Aliquot #3: Latitude: <u>33.56550029</u>	N Longitude <u>86.79224195</u>	W
Media description: <u>black silty clay, damp w/ coal fragments</u>		
Aliquot #4: Latitude: <u>33.56549822</u>	N Longitude <u>86.79226824</u>	W
Media description: <u>black silty clay, damp w/ coal fragment</u>		
Aliquot #5: Latitude: <u>33.56554293</u>	N Longitude <u>86.79228002</u>	W
Media description: <u>black silty clay, damp w/ coal fragments</u>		



ADDRESS: (b) (6)

PROPERTY ID: HP 0187

DATE: 01/07/2013

ARRIVAL TIME: 14:25

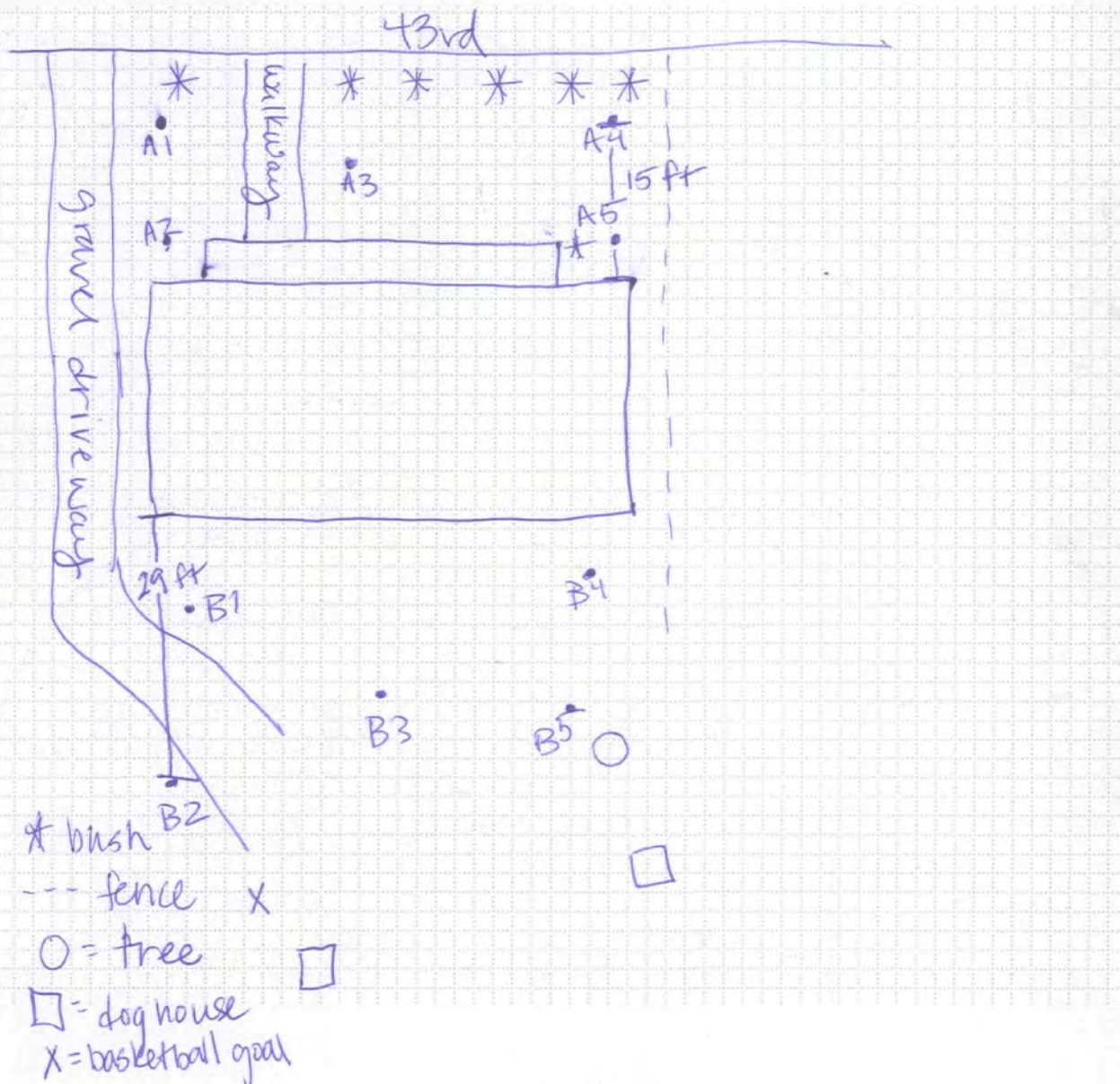
Other pertinent information (weather conditions, etc.):

~60° F, sunny

PROPERTY COMMENTS:

residential house

Grid for property sketch



STATION ID: HP0187SAMPLE ID: HP0187A-CSSAMPLE COLLECTION TIME: 14:45

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

front yardCollection: Composite or GrabMS/MSD? Y or NField Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_

GPS Coordinates: Trimble [ <input checked="" type="checkbox"/> ] Instrument #: <u>818165</u>		Logged? <u>Y</u> or N	
Aliquot #1: Latitude: <u>33.5657086</u>	N Longitude <u>86.79214089</u>	W	
Media description: <u>black silty clay, damp</u>			
Aliquot #2 Latitude: <u>33.56568543</u>	N Longitude <u>86.79215071</u>	W	
Media description: <u>black silty clay w/ gravel and coal fragments</u>			
Aliquot #3: Latitude: <u>33.56569967</u>	N Longitude <u>86.79209721</u>	W	
Media description: <u>black silty clay, damp w/ coal fragments</u>			
Aliquot #4: Latitude: <u>33.56570398</u>	N Longitude <u>86.79205474</u>	W	
Media description: <u>brown silty clay, damp</u>			
Aliquot #5: Latitude: <u>33.56568659</u>	N Longitude <u>86.79204194</u>	W	
Media description: <u>black silty clay, damp w/ coal fragments</u>			

STATION ID: HP0187SAMPLE ID: HP0187B-CSSAMPLE COLLECTION TIME: 15:00

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

back yard w/ 2 dog houses w/ chained dogsCollection: Composite or GrabMS/MSD? Y or NField Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_

GPS Coordinates: Trimble [ <input checked="" type="checkbox"/> ] Instrument #: <u>818165</u>		Logged? <u>Y</u> or N	
Aliquot #1: Latitude: <u>33.56557341</u>	N Longitude <u>86.79214638</u>	W	
Media description: <u>dark brown silty clay, damp</u>			
Aliquot #2 Latitude: <u>33.56552697</u>	N Longitude <u>86.79217131</u>	W	
Media description: <u>black silty clay w/ gravel &amp; coal fragments</u>			
Aliquot #3: Latitude: <u>33.56555872</u>	N Longitude <u>86.79210646</u>	W	
Media description: <u>dark brown, silty clay damp</u>			
Aliquot #4: Latitude: <u>33.56558993</u>	N Longitude <u>86.79206447</u>	W	
Media description: <u>dark brown, silty clay, damp</u>			
Aliquot #5: Latitude: <u>33.56555956</u>	N Longitude <u>86.79208156</u>	W	
Media description: <u>dark brown silty clay, damp</u>			



(b) (6)

ADDRESS:

PROPERTY ID:

FM-0030

DATE:

01/08/2013

ARRIVAL TIME:

08:45

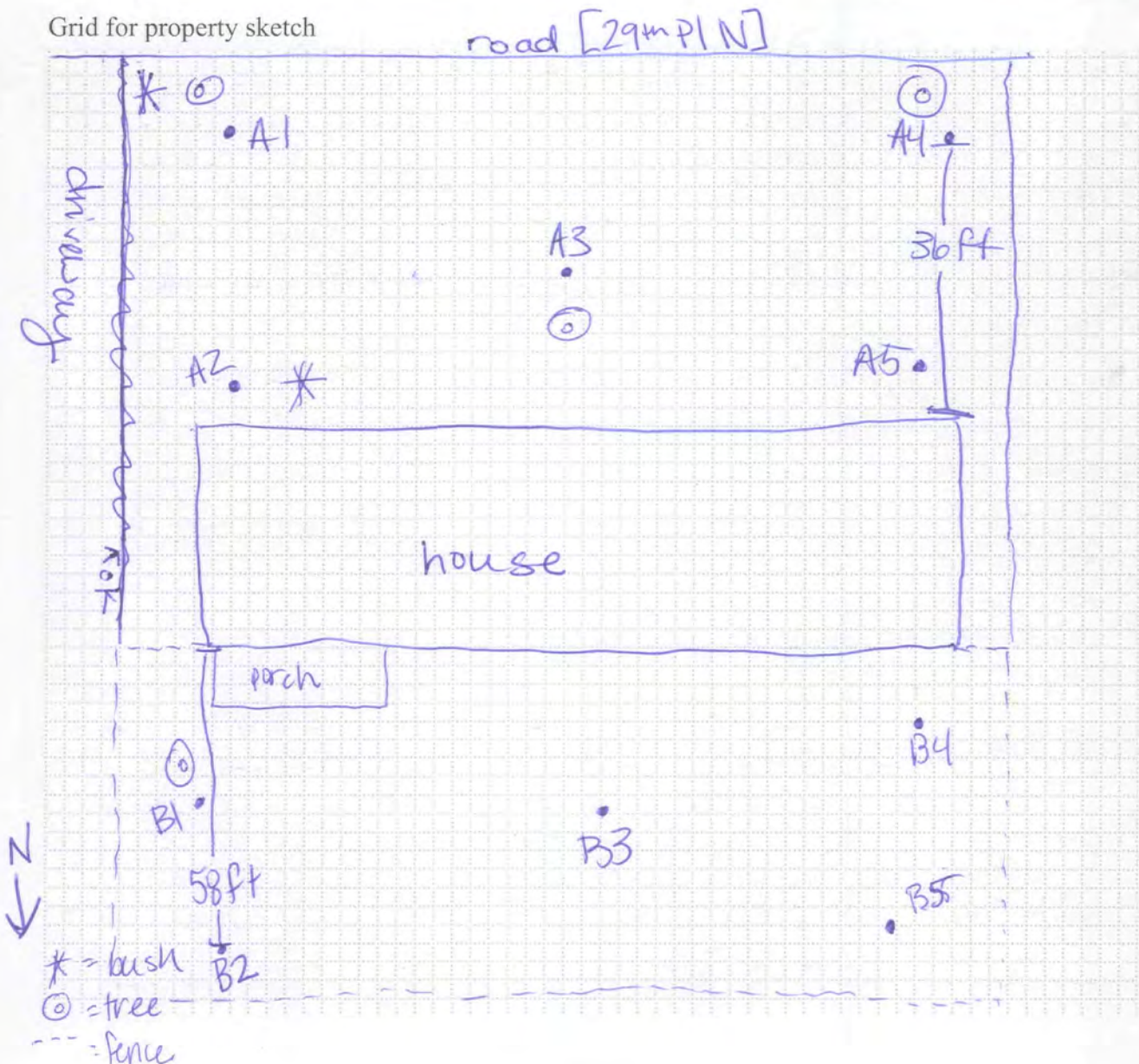
Other pertinent information (weather conditions, etc.):

~45°F, partly cloudy

PROPERTY COMMENTS:

residential house

Grid for property sketch





STATION ID: FM0030 SAMPLE ID: FM0030A-CS

SAMPLE COLLECTION TIME: 09:00

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

front yard

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_

GPS Coordinates: Trimble [☒] Instrument #: 010593 Logged? ☒ or N

Aliquot #1: Latitude: 33.56703747 N Longitude 86.81061233 W

Media description: dark brown silty clay, damp

Aliquot #2 Latitude: 33.56702856 N Longitude 86.81065781 W

Media description: dark brown silty clay, damp

Aliquot #3: Latitude: 33.56700482 N Longitude 86.81063380 W

Media description: dark brown silty clay, damp

Aliquot #4: Latitude: 33.56696816 N Longitude 86.81059749 W

Media description: dark brown silty clay, damp

Aliquot #5: Latitude: 33.56697036 N Longitude 86.81066547 W

Media description: dark brown silty clay, damp

STATION ID: FM0030 SAMPLE ID: FM0030B-CS

SAMPLE COLLECTION TIME: 09:20

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

back yard

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_

GPS Coordinates: Trimble [☒] Instrument #: 010593 Logged? ☒ or N

Aliquot #1: Latitude: 33.56707629 N Longitude 86.81090157 W

Media description: dark brown silty clay, damp w/ gravel

Aliquot #2 Latitude: 33.56706309 N Longitude 86.81098655 W

Media description: dark brown silty clay, damp w/ gravel

Aliquot #3: Latitude: 33.56700632 N Longitude 86.81093912 W

Media description: dark brown, silty clay, damp w/ gravel

Aliquot #4: Latitude: 33.56697353 N Longitude 86.81087153 W

Media description: dark brown, silty clay, damp w/ gravel

Aliquot #5: Latitude: 33.56697425 N Longitude 86.81090737 W

Media description: dark brown silty clay, damp w/ gravel



ADDRESS: (b) (6)

PROPERTY ID: HP-0090

DATE: 01/08/2013

ARRIVAL TIME: 09:45

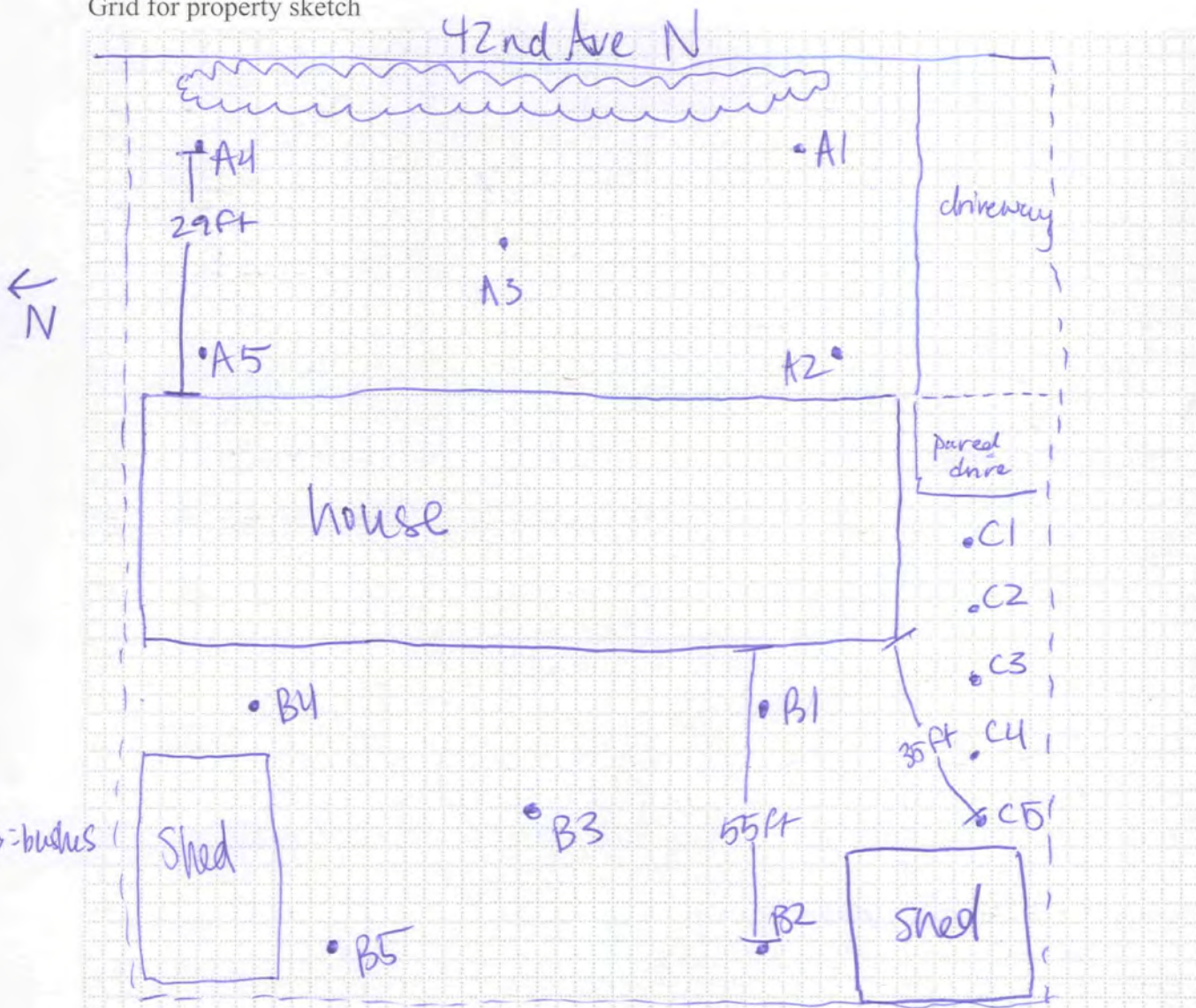
Other pertinent information (weather conditions, etc.):

~50°F, partly cloudy

PROPERTY COMMENTS:

residential house

Grid for property sketch





STATION ID: HP-0090SAMPLE ID: HP0090A-CSSAMPLE COLLECTION TIME: 10:20

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

front yardCollection: Composite or GrabMS/MSD? Y or NField Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_GPS Coordinates: Trimble [☒] Instrument #: 018593 Logged? Y or NAliquot #1: Latitude: 33.56504833 N Longitude 86.79490653 WMedia description: dark brown silty clay, dampAliquot #2 Latitude: 33.56510246 N Longitude 86.79491609 WMedia description: dark brown silty clay, dampAliquot #3: Latitude: 33.56507742 N Longitude 86.79487415 WMedia description: dark brown silty clay, dampAliquot #4: Latitude: 33.56504421 N Longitude 86.79483158 WMedia description: dark brown silty clay, dampAliquot #5: Latitude: 33.56510274 N Longitude 86.79483551 WMedia description: dark brown silty clay, dampSTATION ID: HP-0090SAMPLE ID: HP0090B-CSSAMPLE COLLECTION TIME: 10:30

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

back yardCollection: Composite or GrabMS/MSD? Y or NField Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_GPS Coordinates: Trimble [☒] Instrument #: 018593 Logged? Y or NAliquot #1: Latitude: 33.56527743 N Longitude 86.79491171 WMedia description: dark brown silty clay, dampAliquot #2 Latitude: 33.56540473 N Longitude 86.79489347 WMedia description: dark brown silty clay, dampAliquot #3: Latitude: 33.56532301 N Longitude 86.79487642 WMedia description: dark brown silty clay, dampAliquot #4: Latitude: 33.56527372 N Longitude 86.79481888 WMedia description: dark brown silty clay, dampAliquot #5: Latitude: 33.56540530 N Longitude 86.79482245 WMedia description: dark brown silty clay, damp



ADDRESS: \_\_\_\_\_ PROPERTY ID: \_\_\_\_\_

DATE: \_\_\_\_\_ ARRIVAL TIME: \_\_\_\_\_

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

Grid for property sketch

dm  
01/08/13

STATION ID: HP-0090SAMPLE ID: HP-0090C-CSSAMPLE COLLECTION TIME: 10:45

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

side yardCollection: Composite or GrabMS/MSD? Y or NField Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_GPS Coordinates: Trimble [☒] Instrument #: 018593Logged? Y or NAliquot #1: Latitude: 33.56518306 N Longitude 86.79495228 WMedia description: dark brown silty clay, dampAliquot #2 Latitude: 33.56522616 N Longitude 86.79493989 WMedia description: dark brown silty clay, dampAliquot #3: Latitude: 33.56525949 N Longitude 86.79492883 WMedia description: dark brown silty clay, dampAliquot #4: Latitude: 33.56529591 N Longitude 86.79492887 WMedia description: dark brown silty clay, dampAliquot #5: Latitude: 33.56534850 N Longitude 86.79493116 WMedia description: dark brown silty clay, damp

STATION ID: \_\_\_\_\_

SAMPLE ID: \_\_\_\_\_

SAMPLE COLLECTION TIME: \_\_\_\_\_

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_

GPS Coordinates: Trimble [ ] Instrument #: \_\_\_\_\_

Logged? Y or N

Aliquot #1: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Media description: \_\_\_\_\_

Aliquot #2 Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Media description: \_\_\_\_\_

Aliquot #3: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Media description: \_\_\_\_\_

Aliquot #4: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Media description: \_\_\_\_\_

Aliquot #5: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Media description: \_\_\_\_\_



ADDRESS: (b) (6) PROPERTY ID: CV-0411

DATE: 01/08/2013 ARRIVAL TIME: 12:15

Other pertinent information (weather conditions, etc.):

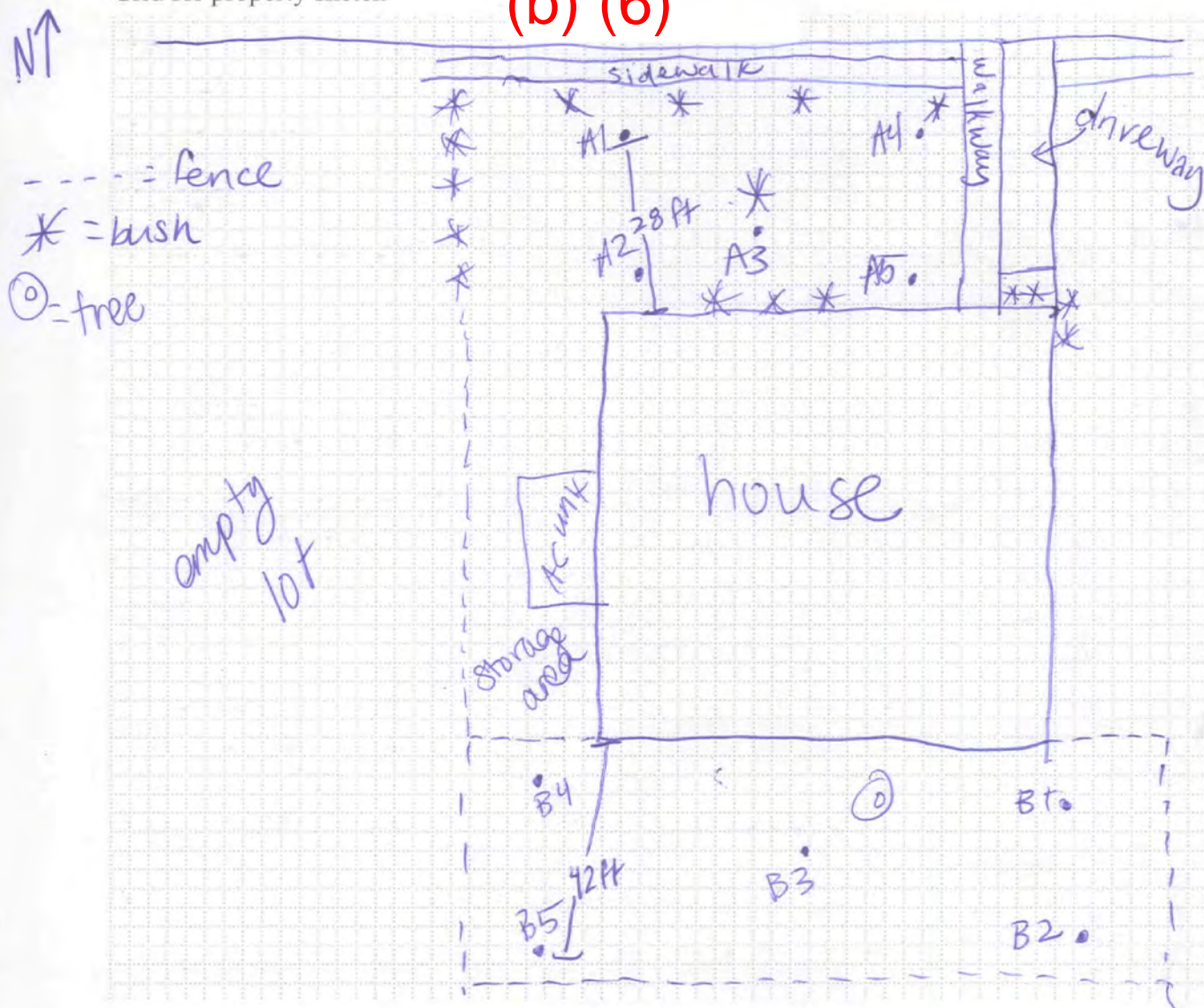
Cloudy, ~55°F

PROPERTY COMMENTS:

residential house

Grid for property sketch

(b) (6)





STATION ID: CV-0411SAMPLE ID: CV0411A-CSSAMPLE COLLECTION TIME: 12:35

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

front yardCollection: Composite or GrabMS/MSD? Y or NField Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_GPS Coordinates: Trimble [☒] Instrument #: 018593Logged? Y or NAliquot #1: Latitude: 33.55841337 N Longitude 86.79957032 WMedia description: black silty clay, damp w/ coal fragments & gravelAliquot #2 Latitude: 33.55841499 N Longitude 86.79963403 WMedia description: brown silty clay, damp w/ gravelAliquot #3: Latitude: 33.55839329 N Longitude 86.79960872 WMedia description: brown silty clay, damp w/ gravelAliquot #4: Latitude: 33.55838440 N Longitude 86.79957109 WMedia description: brown silty clay, dampAliquot #5: Latitude: 33.55838814 N Longitude 86.79962519 WMedia description: brown silty clay, dampSTATION ID: CV-0411SAMPLE ID: CV0411B-CS  
CV0411B-CS dmSAMPLE COLLECTION TIME: 12:50

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

back yardCollection: Composite or GrabMS/MSD? Y or NField Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_GPS Coordinates: Trimble [☒] Instrument #: 018593Logged? Y or NAliquot #1: Latitude: 33.55832881 N Longitude 86.79984878 WMedia description: dark brown silty clay, dampAliquot #2 Latitude: 33.55833640 N Longitude 86.79993775 WMedia description: dark brown silty clay, dampAliquot #3: Latitude: 33.55836810 N Longitude 86.7998991 WMedia description: dark brown silty clay and gravel, dampAliquot #4: Latitude: 33.55841815 N Longitude 86.79985191 WMedia description: dark brown silty clay and gravel, dampAliquot #5: Latitude: 33.55841937 N Longitude 86.79994604 WMedia description: dark brown silty clay, damp



ADDRESS: (b) (6)

PROPERTY ID: CV-0967

DATE: 2/08/2013

ARRIVAL TIME: 13:30

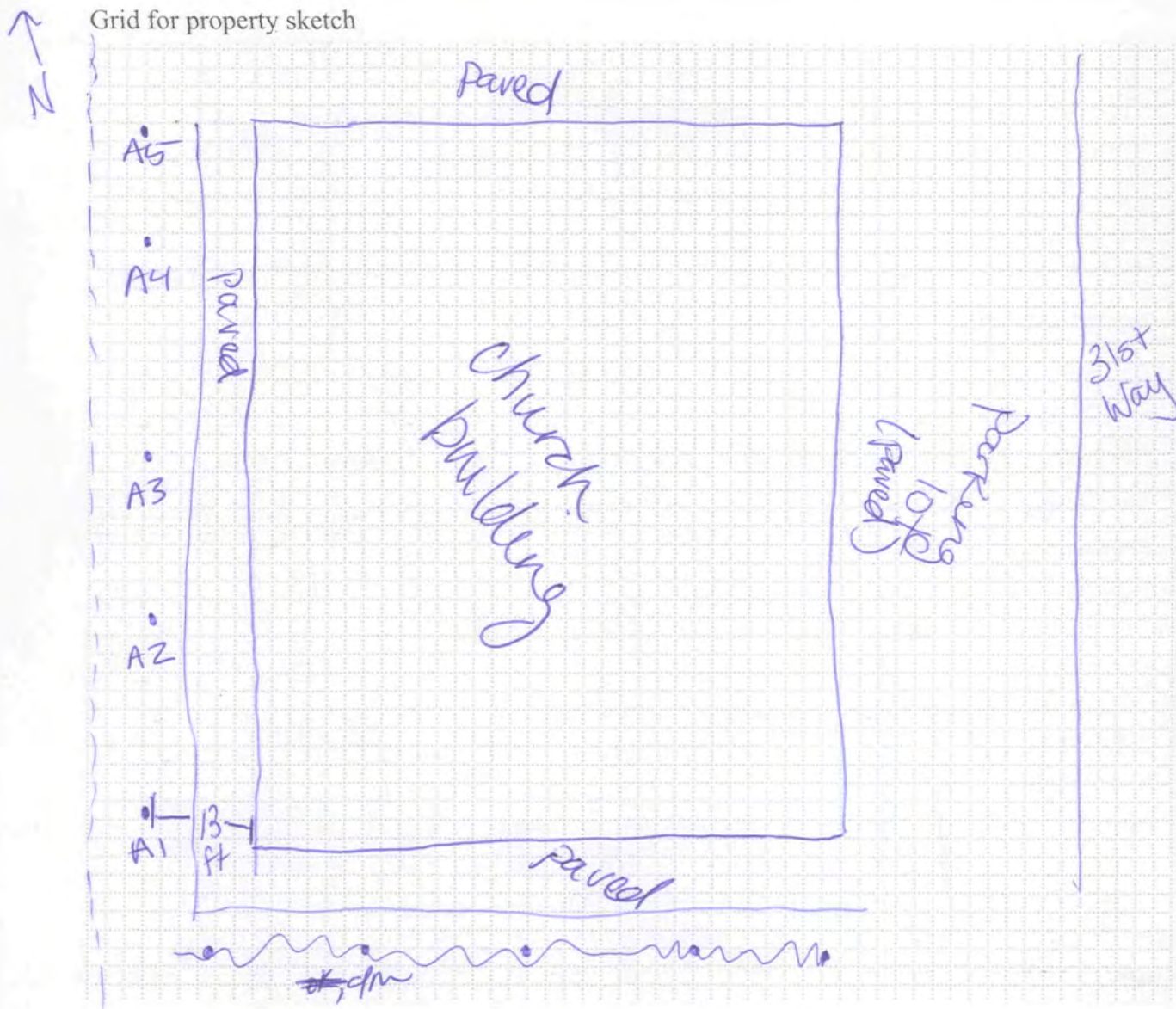
Other pertinent information (weather conditions, etc.):

Sunny, ~60°F

PROPERTY COMMENTS:

church

Grid for property sketch



STATION ID: CV-0967SAMPLE ID: CV0967A-05SAMPLE COLLECTION TIME: 13:45

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

back yard strip behind churchCollection: Composite or GrabMS/MSD? Y or NField Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_GPS Coordinates: Trimble [ ☒ ] Instrument #: 08593Logged? Y or NAliquot #1: Latitude: 33.55967034 N Longitude 86.80443570 WMedia description: dark brown silty clay, dampAliquot #2 Latitude: 33.55973104 N Longitude 86.80447484 WMedia description: dark brown silty clay, dampAliquot #3: Latitude: 33.55979343 N Longitude 86.80447231 WMedia description: dark brown silty clay, damp w/ gravelAliquot #4: Latitude: 33.55984924 N Longitude 86.80446943 WMedia description: dark brown silty clay, damp w/ gravelAliquot #5: Latitude: 33.55990894 N Longitude 86.80447263 WMedia description: dark brown silty clay, damp w/ gravel

STATION ID: \_\_\_\_\_

SAMPLE ID: \_\_\_\_\_

SAMPLE COLLECTION TIME: \_\_\_\_\_

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_

GPS Coordinates: Trimble [ ☐ ] Instrument #: \_\_\_\_\_

Logged? Y or N

Aliquot #1: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Media description: \_\_\_\_\_

Aliquot #2 Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Media description: \_\_\_\_\_

Aliquot #3: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Media description: \_\_\_\_\_

Aliquot #4: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Media description: \_\_\_\_\_

Aliquot #5: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Media description: \_\_\_\_\_



(b) (6)

ADDRESS:

PROPERTY ID:

CV-0186

DATE:

9/08/13

ARRIVAL TIME:

13:50

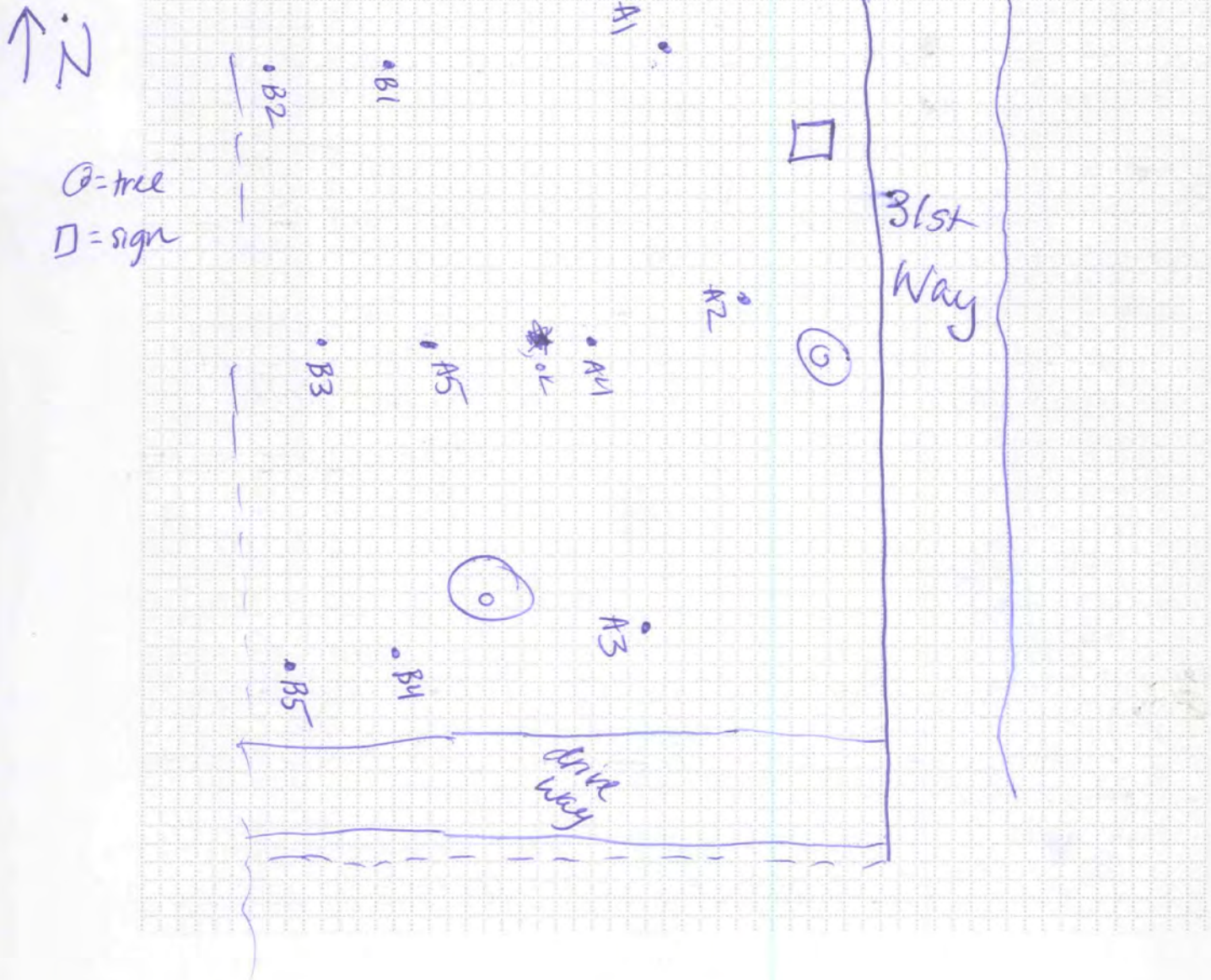
Other pertinent information (weather conditions, etc.):

Sunny, ~60°F

PROPERTY COMMENTS:

empty lot adjacent to church (CV-0967)

Grid for property sketch





STATION ID: CV-0186SAMPLE ID: CV-0186A-CSSAMPLE COLLECTION TIME: 14:10

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

front half of lotCollection: Composite or GrabMS/MSD? Y or (N)Field Duplicate or Split: Yes or (No) If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_GPS Coordinates: Trimble [ ☒ ] Instrument #: 610593Logged? (Y) or NAliquot #1: Latitude: 33.55963862 N Longitude 86.80420026 WMedia description: dark brown silty clay, dampAliquot #2 Latitude: 33.55953052 N Longitude 86.80415749 WMedia description: dark brown silty clay, dampAliquot #3: Latitude: 33.55942670 N Longitude 86.80423069 WMedia description: brown silty clay, damp w/ coal fragmentsAliquot #4: Latitude: 33.55952792 N Longitude 86.80422662 WMedia description: dark brown silty clay, dampAliquot #5: Latitude: 33.55952441 N Longitude 86.80432111 WMedia description: dark brown silty clay, dampSTATION ID: CV-0186SAMPLE ID: CV-0186B-CSSAMPLE COLLECTION TIME: 14:25

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

back half of lotCollection: Composite or GrabMS/MSD? Y or (N)Field Duplicate or Split: Yes or (No) If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_GPS Coordinates: Trimble [ ☒ ] Instrument #: 610593Logged? (Y) or NAliquot #1: Latitude: 33.55963753 N Longitude 86.80432489 WMedia description: black silty clay, damp w/ gravel & coal fragmentsAliquot #2 Latitude: 33.55964895 N Longitude 86.80441417 WMedia description: black silty clay, damp w/ gravel & coal fragmentsAliquot #3: Latitude: 33.55952366 N Longitude 86.80436669 WMedia description: black silty clay, damp w/ gravel & coal fragmentsAliquot #4: Latitude: 33.55942186 N Longitude 86.80432771 WMedia description: black silty clay, damp w/ gravel & coal fragmentsAliquot #5: Latitude: 33.55943127 N Longitude 86.80442803 WMedia description: brown silty clay, damp w/ gravel



ADDRESS: (b) (6)

PROPERTY ID: HP-0205

DATE: 01/08/2013

ARRIVAL TIME: 14:45

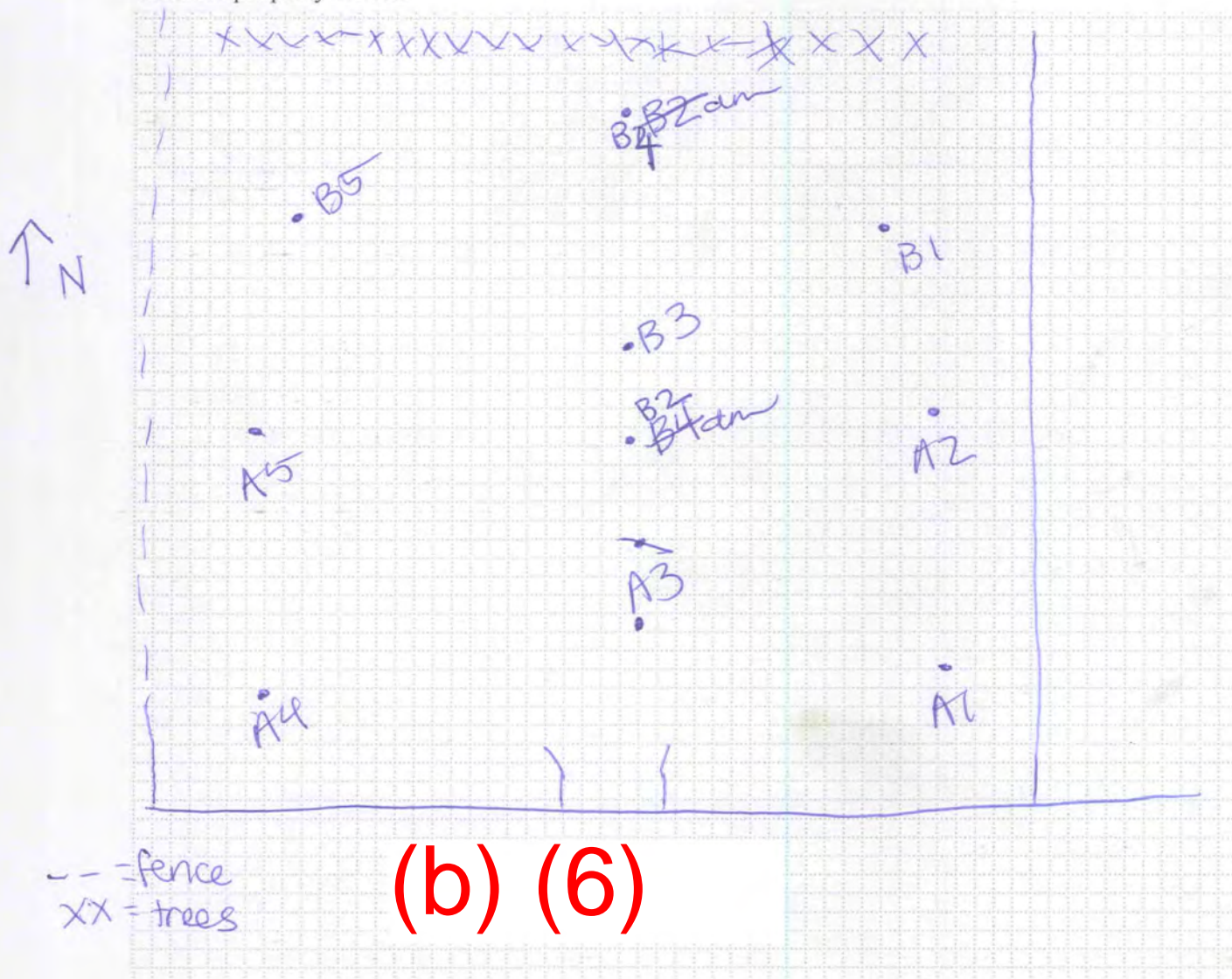
Other pertinent information (weather conditions, etc.):

~60°F, partly sunny

PROPERTY COMMENTS:

empty lot

Grid for property sketch



(b) (6)



STATION ID: HP-0205SAMPLE ID: HP0205A-CSSAMPLE COLLECTION TIME: 15:15

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

front half of lotCollection: Composite or GrabMS/MSD? Y or NField Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_GPS Coordinates: Trimble [ ☒ ] Instrument #: 018593Logged? Y or NAliquot #1: Latitude: 33.56575726 N Longitude 86.79022379 WMedia description: dark brown silty clay, damp w/ gravel & coal fragmentsAliquot #2 Latitude: 33.56584116 N Longitude 86.79023115 WMedia description: dark brown silty clay, damp w/ gravel & coal fragmentsAliquot #3: Latitude: 33.56579476 N Longitude 86.79031627 WMedia description: dark brown silty clay, damp w/ gravel & coal fragmentsAliquot #4: Latitude: 33.56574309 N Longitude 86.79038906 WMedia description: dark brown silty clay, damp w/ gravel & coal fragmentsAliquot #5: Latitude: 33.56585145 N Longitude 86.79039197 WMedia description: dark brown silty clay, damp w/ gravel & coal fragmentsSTATION ID: HP-0205SAMPLE ID: HP0205B-CSSAMPLE COLLECTION TIME: 15:20

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

back half of lotCollection: Composite or GrabMS/MSD? Y or NField Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_GPS Coordinates: Trimble [ ☒ ] Instrument #: 018593Logged? Y or NAliquot #1: Latitude: 33.56592802 N Longitude 86.79023640 WMedia description: dark brown silty clay, damp with gravelAliquot #2 Latitude: 33.56584675 N Longitude 86.79031812 WMedia description: dark brown silty clay, damp with gravelAliquot #3: Latitude: 33.56590024 N Longitude 86.79032281 WMedia description: dark brown silty clay, damp with gravelAliquot #4: Latitude: 33.56596418 N Longitude 86.79032257 WMedia description: dark brown silty clay, damp with gravelAliquot #5: Latitude: 33.56590178 N Longitude 86.79040618 WMedia description: dark brown silty clay, damp with gravel



ADDRESS: (b) (6)

PROPERTY ID: HP-0076

DATE: 01/09/13

ARRIVAL TIME: 08:35

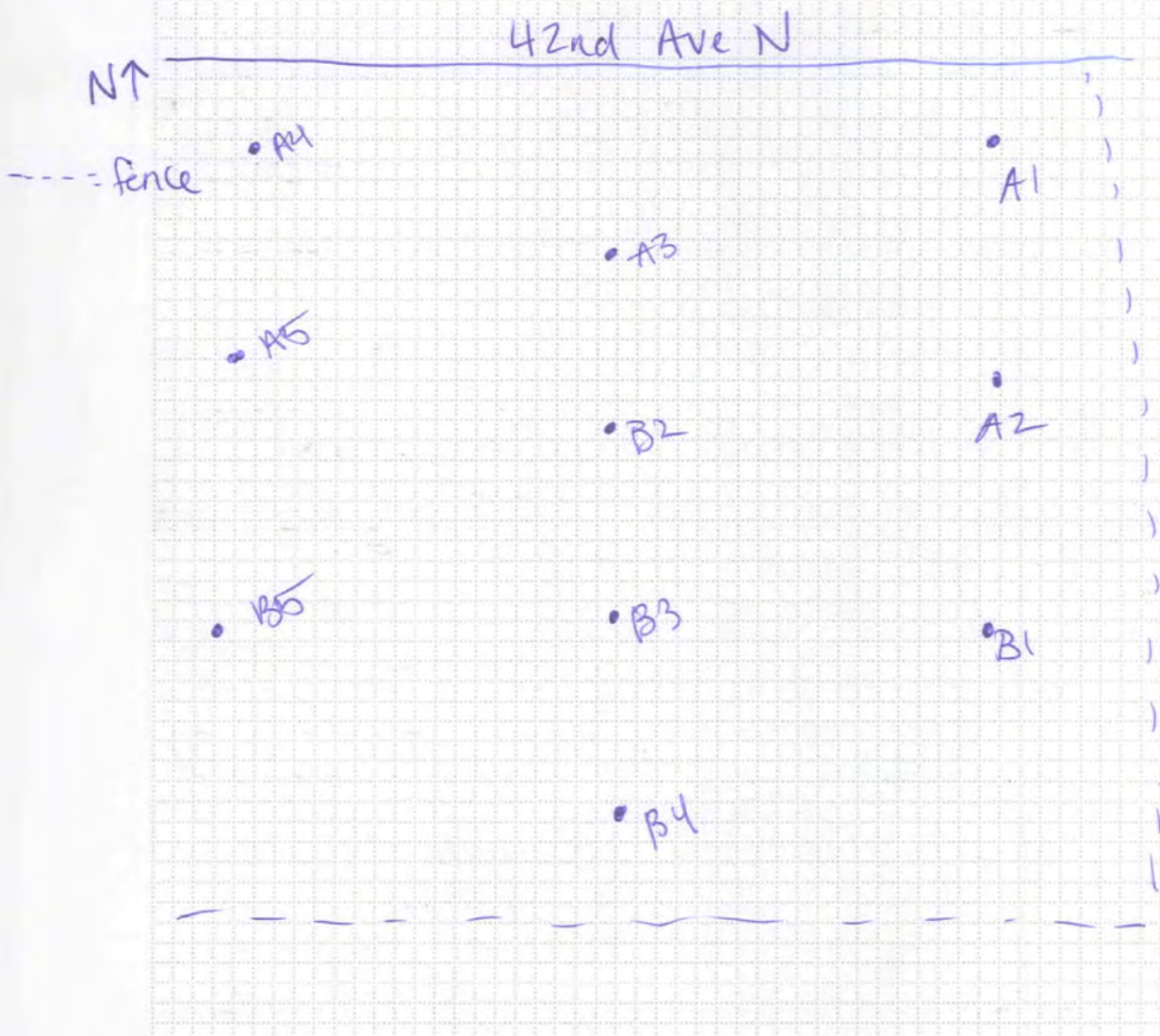
Other pertinent information (weather conditions, etc.):

cloudy, ~50°F, misting off and on

PROPERTY COMMENTS:

empty lot

Grid for property sketch



STATION ID: HP-0076SAMPLE ID: HP0076A-CSSAMPLE COLLECTION TIME: 08:45

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

front half of lotCollection: Composite or GrabMS/MSD? Y or NField Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: HP0076A-CSDGPS Coordinates: Trimble ☒ Instrument #: 08593Logged? Y or NAliquot #1: Latitude: 33.56493459 N Longitude 86.79599983 WMedia description: black silty clay, damp w/ gravel and fill materialAliquot #2 Latitude: 33.56482965 N Longitude 86.79596735 WMedia description: black silty clay, damp w/ gravel and fill materialAliquot #3: Latitude: 33.56488354 N Longitude 86.79605571 WMedia description: black silty clay, damp w/ gravel and fill materialAliquot #4: Latitude: 33.56494570 N Longitude 86.79613028 WMedia description: black silty clay, damp w/ gravel and fill materialAliquot #5: Latitude: 33.56483708 N Longitude 86.79612709 WMedia description: black silty clay, damp w/ gravel and fill materialSTATION ID: HP-0076SAMPLE ID: HP0076B-CS  
HP0076BBSAMPLE COLLECTION TIME: 09:20

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

back half of lotCollection: Composite or GrabMS/MSD? Y or NField Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_GPS Coordinates: Trimble ☒ Instrument #: 08593Logged? Y or NAliquot #1: Latitude: 33.56472796 N Longitude 86.79597566 WMedia description: black silty clay, damp w/ gravel and fill materialAliquot #2 Latitude: 33.56482138 N Longitude 86.79605550 WMedia description: black silty clay, damp w/ gravel and fill materialAliquot #3: Latitude: 33.56472779 N Longitude 86.79607321 WMedia description: black silty clay, damp w/ gravel and fill materialAliquot #4: Latitude: 33.56484425 N Longitude 86.79607446 WMedia description: black silty clay, damp w/ gravel and fill materialAliquot #5: Latitude: 33.56472633 N Longitude 86.79617662 WMedia description: light brown silty clay, damp



ADDRESS: (b) (6)

PROPERTY ID: FM-0150

DATE: 01/09/2013

ARRIVAL TIME: 09:45

Other pertinent information (weather conditions, etc.):

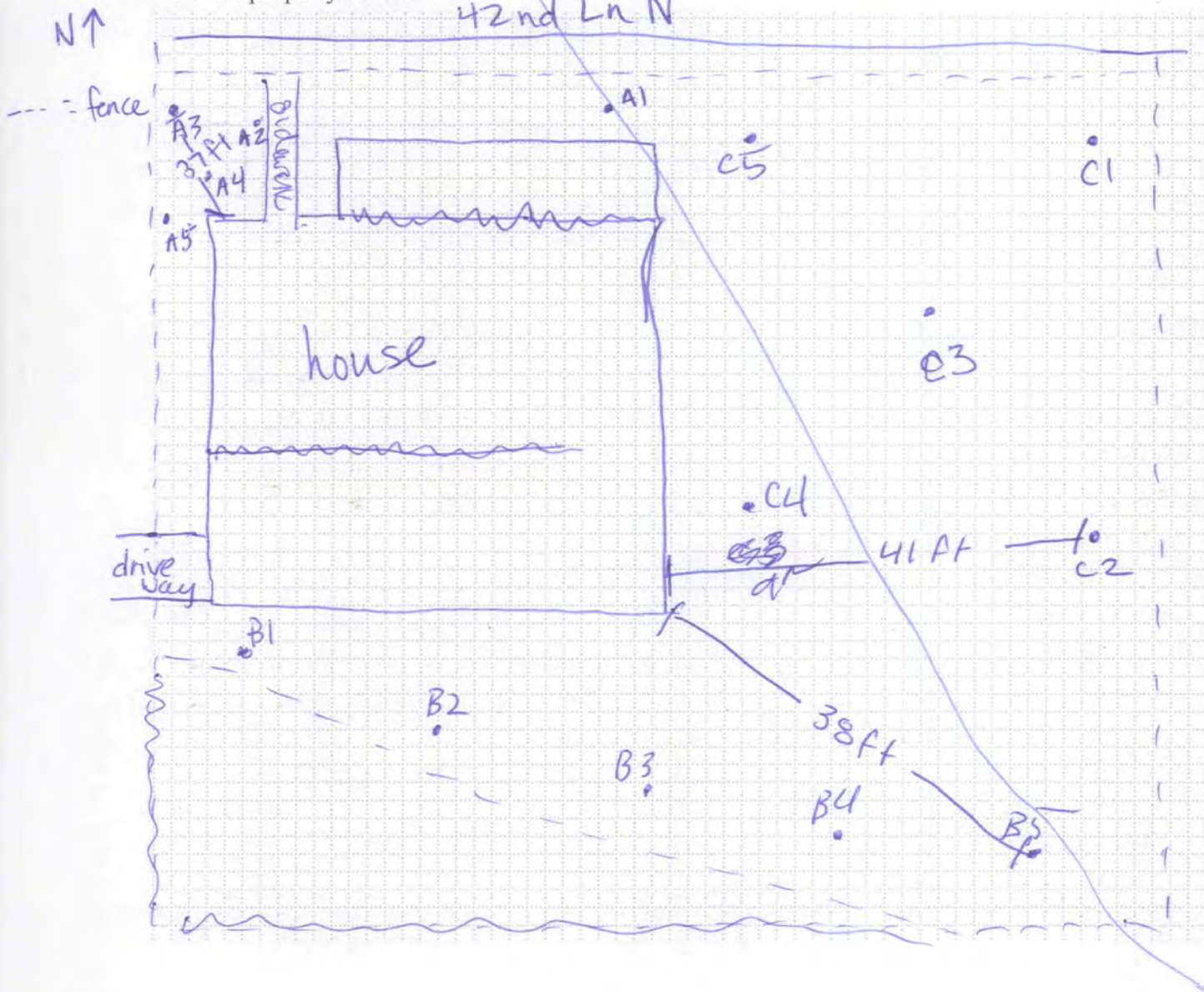
~50°F, cloudy

PROPERTY COMMENTS:

residential house

01/09/13

Grid for property sketch





STATION ID: FM-0150 SAMPLE ID: FM-0150A-CS

SAMPLE COLLECTION TIME: 10:00

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

front yard

Collection: ☒ Composite or ☐ Grab

MS/MSD? Y or ☒ N

Field Duplicate or Split: Yes or ☒ No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_

GPS Coordinates: Trimble <input checked="" type="checkbox"/>	Instrument #: <u>01588</u>	Logged? <input checked="" type="radio"/> Y or <input type="radio"/> N
Aliquot #1: Latitude: <u>33.56757595</u>	N Longitude <u>86.81122968</u>	W
Media description: <u>brown silty clay, damp</u>		
Aliquot #2: Latitude: <u>33.56755137</u>	N Longitude <u>86.81130121</u>	W
Media description: <u>brown silty clay, damp</u>		
Aliquot #3: Latitude: <u>33.56756032</u>	N Longitude <u>86.81137682</u>	W
Media description: <u>brown silty clay, damp w/ gravel &amp; coal fragments</u>		
Aliquot #4: Latitude: <u>33.56750735</u>	N Longitude <u>86.81135886</u>	W
Media description: <u>brown silty clay, damp w/ gravel &amp; coal fragments</u>		
Aliquot #5: Latitude: <u>33.56744012</u>	N Longitude <u>86.81137333</u>	W
Media description: <u>brown silty clay, damp w/ gravel &amp; coal fragments</u>		

STATION ID: FM-0150 SAMPLE ID: FM-0150B-CS

SAMPLE COLLECTION TIME: 10:35

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

back yard

Collection: ☒ Composite or ☐ Grab

MS/MSD? Y or ☒ N

Field Duplicate or Split: Yes or ☒ No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_

GPS Coordinates: Trimble <input checked="" type="checkbox"/>	Instrument #: <u>018593</u>	Logged? <input checked="" type="radio"/> Y or <input type="radio"/> N
Aliquot #1: Latitude: <u>33.56737836</u>	N Longitude <u>86.81135407</u>	W
Media description: <u>brown silty clay, damp</u>		
Aliquot #2: Latitude: <u>33.56737723</u>	N Longitude <u>86.81128425</u>	W
Media description: <u>brown silty clay, damp</u>		
Aliquot #3: Latitude: <u>33.56738725</u>	N Longitude <u>86.81117840</u>	W
Media description: <u>brown silty clay, damp</u>		
Aliquot #4: Latitude: <u>33.56740549</u>	N Longitude <u>86.81112320</u>	W
Media description: <u>brown silty clay, damp</u>		
Aliquot #5: Latitude: <u>33.56742337</u>	N Longitude <u>86.81104249</u>	W
Media description: <u>brown silty clay, damp</u>		



ADDRESS: \_\_\_\_\_ PROPERTY ID: \_\_\_\_\_

DATE: \_\_\_\_\_ ARRIVAL TIME: \_\_\_\_\_

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

Grid for property sketch

dm  
01/09/13

STATION ID: FM-0150 SAMPLE ID: FM0150C-CS

SAMPLE COLLECTION TIME: 10:50

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Side yard

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_

GPS Coordinates: Trimble ☒ Instrument #: 018593 Logged? Y or N

Aliquot #1: Latitude: 33.56756162 N Longitude: 86.81104543 W

Media description: brown silty clay, damp w/ gravel & coal fragments

Aliquot #2 Latitude: 33.56745970 N Longitude: 86.81103352 W

Media description: brown silty clay, damp w/ gravel & coal fragments

Aliquot #3: Latitude: 33.56750513 N Longitude: 86.8110614 W

Media description: brown silty clay, damp w/ gravel & coal fragments

Aliquot #4: Latitude: 33.56756280 N Longitude: 86.8117622 W

Media description: brown silty clay, damp w/ gravel & coal fragments

Aliquot #5: Latitude: 33.56745003 N Longitude: 86.81113714 W

Media description: brown silty clay, damp w/ gravel & coal fragments

STATION ID: \_\_\_\_\_ SAMPLE ID: \_\_\_\_\_

SAMPLE COLLECTION TIME: \_\_\_\_\_

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_

GPS Coordinates: Trimble ☐ Instrument #: 018593 Logged? Y or N

Aliquot #1: Latitude: \_\_\_\_\_ N Longitude: \_\_\_\_\_ W

Media description: \_\_\_\_\_

Aliquot #2 Latitude: \_\_\_\_\_ N Longitude: \_\_\_\_\_ W

Media description: \_\_\_\_\_

Aliquot #3: Latitude: \_\_\_\_\_ N Longitude: \_\_\_\_\_ W

Media description: \_\_\_\_\_

Aliquot #4: Latitude: \_\_\_\_\_ N Longitude: \_\_\_\_\_ W

Media description: \_\_\_\_\_

Aliquot #5: Latitude: \_\_\_\_\_ N Longitude: \_\_\_\_\_ W

Media description: \_\_\_\_\_



(b) (6)

ADDRESS:

DATE: 01/09/2013

PROPERTY ID: CV-0462

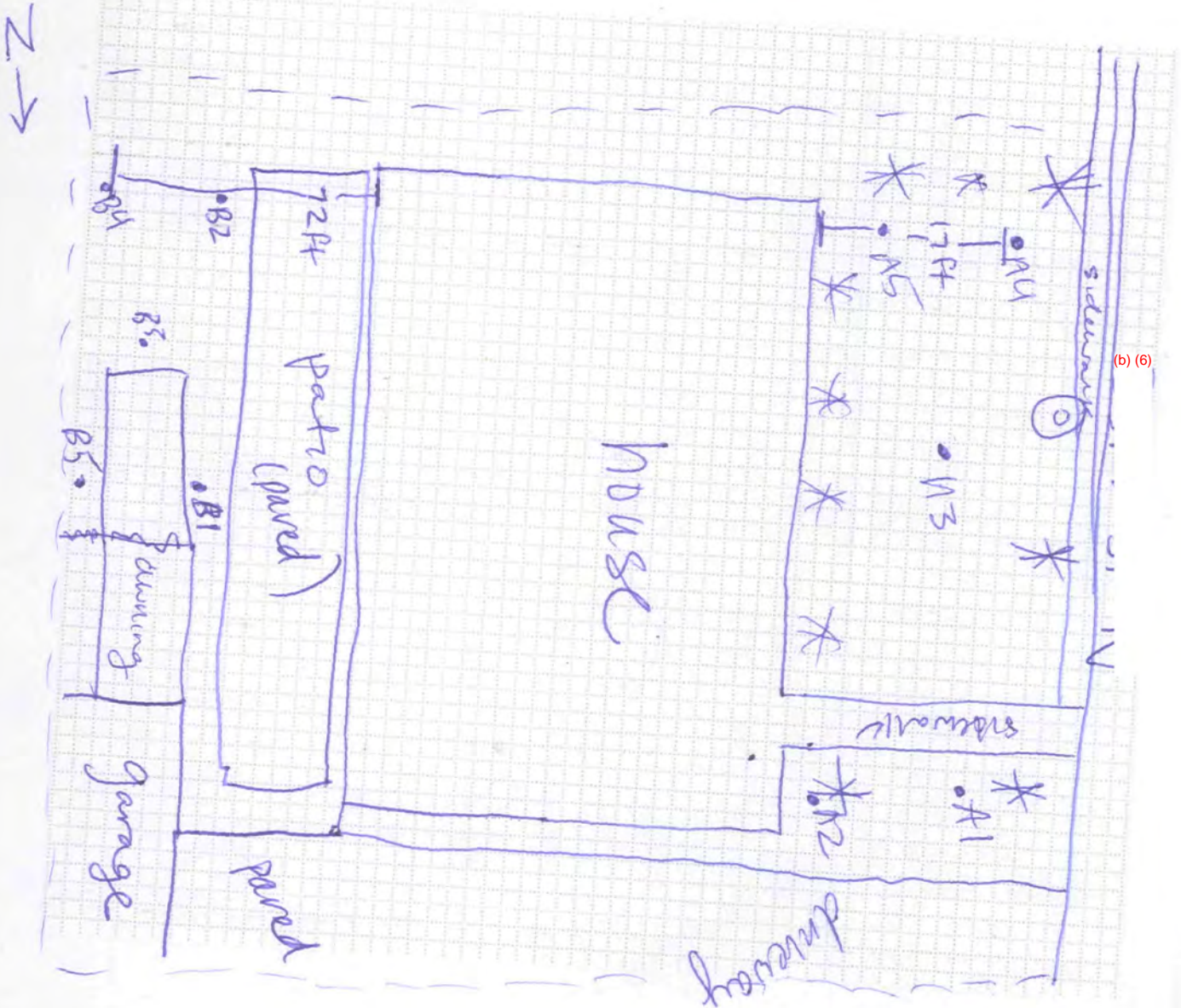
ARRIVAL TIME: 11:30

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

residential house

Grid for property sketch





STATION ID: CV-0462SAMPLE ID: CV-0462ACSSAMPLE COLLECTION TIME: 1140

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

front yardCollection: Composite or GrabMS/MSD? Y or NField Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_GPS Coordinates: Trimble ☒ Instrument #: 018593 Logged? Y or NAliquot #1: Latitude: 33.55631026 N Longitude 86.80047615 WMedia description: black silty clay, damp w/ coal fragments & gravelAliquot #2 Latitude: 33.55632266 N Longitude 86.80045460 WMedia description: black silty clay, damp w/ coal fragments and gravelAliquot #3: Latitude: 33.55628588 N Longitude 86.80046834 WMedia description: black silty clay, damp w/ coal fragments and gravelAliquot #4: Latitude: 33.55624503 N Longitude 86.80048214 WMedia description: black silty clay, damp w/ coal fragments & gravelAliquot #5: Latitude: 33.55624641 N Longitude 86.80044860 WMedia description: black silty clay, damp w/ coal fragments & gravelSTATION ID: CV-0462SAMPLE ID: CV0462B-CSSAMPLE COLLECTION TIME: 11:45

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

back yardCollection: Composite or GrabMS/MSD? Y or NField Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_GPS Coordinates: Trimble ☒ Instrument #: 018593 Logged? Y or NAliquot #1: Latitude: 33.55628805 N Longitude 86.80023439 WMedia description: black silty clay, damp w/ gravelAliquot #2 Latitude: 33.55623622 N Longitude 86.80023240 WMedia description: black silty clay, damp w/ gravelAliquot #3: Latitude: 33.55625355 N Longitude 86.80017431 WMedia description: black silty clay, damp w/ gravelAliquot #4: Latitude: 33.55623112 N Longitude 86.80007398 WMedia description: black silty clay, damp w/ gravelAliquot #5: Latitude: 33.55627105 N Longitude 86.80007235 WMedia description: black silty clay, damp w/ gravel



ADDRESS: (b) (6)

DATE: 01/09/2013

PROPERTY ID: CV-0091

ARRIVAL TIME: 13:30

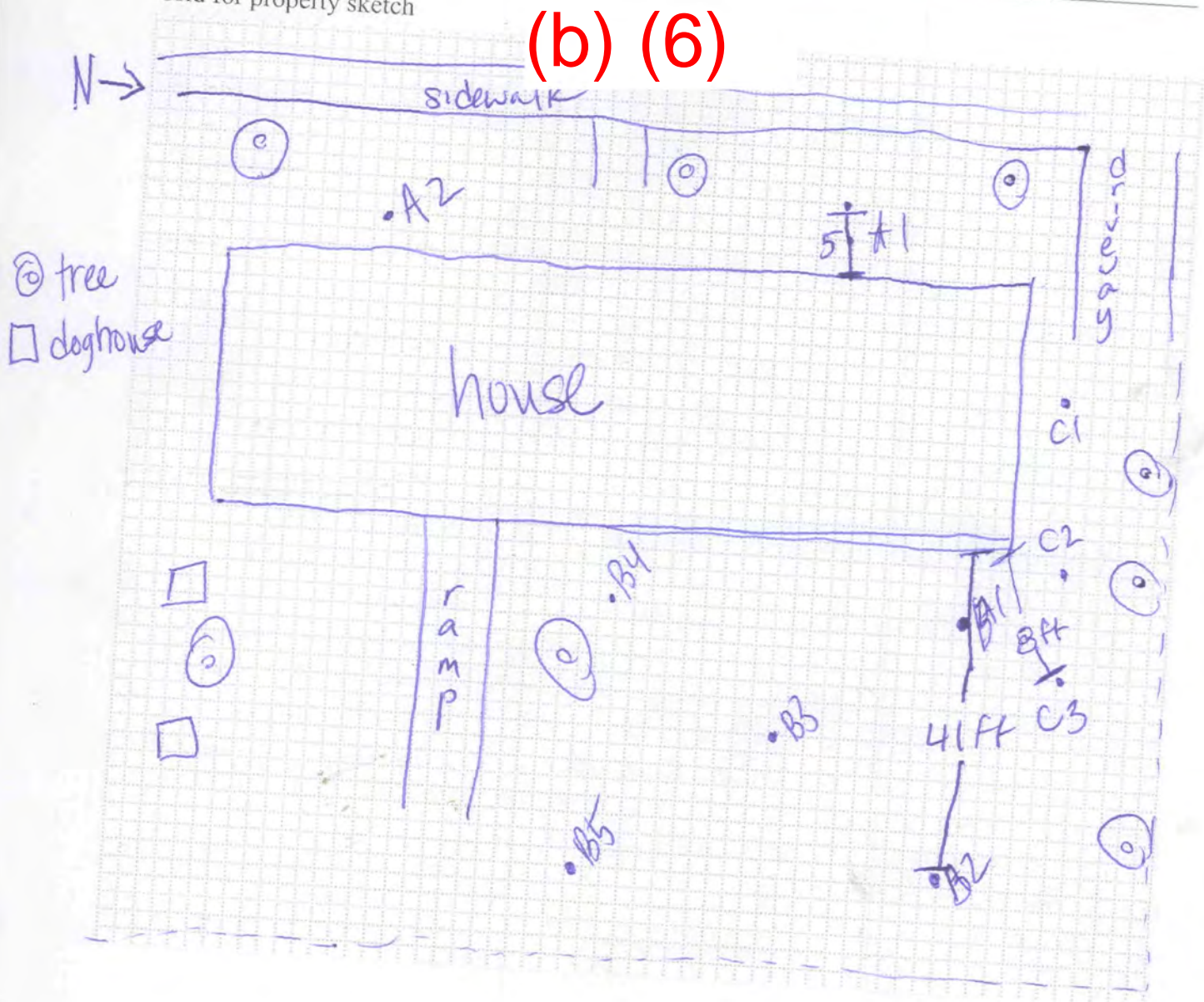
Other pertinent information (weather conditions, etc.):

drizzling rain, ~55°F, overcast

PROPERTY COMMENTS:

residential house-looks vacant; windows boarded up

Grid for property sketch





STATION ID: CV-0091SAMPLE ID: CV0091A-CSSAMPLE COLLECTION TIME: 13:50

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

front yard (2 pt composite due to size)Collection: Composite or GrabMS/MSD? Y or NField Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_GPS Coordinates: Trimble [☒] Instrument #: 010593 Logged? Y or NAliquot #1: Latitude: 33.55726333 N Longitude: 86.80488284 WMedia description: black silty clay, damp w/ coal fragmentsAliquot #2 Latitude: 33.55728008 N Longitude: 86.80488434 WMedia description: black silty clay, damp w/ coal fragments

Aliquot #3: Latitude: \_\_\_\_\_ N Longitude: \_\_\_\_\_ W

Media description: dm 0.109113

Aliquot #4: Latitude: \_\_\_\_\_ N Longitude: \_\_\_\_\_ W

Media description: \_\_\_\_\_

Aliquot #5: Latitude: \_\_\_\_\_ N Longitude: \_\_\_\_\_ W

Media description: \_\_\_\_\_

STATION ID: CV-0091SAMPLE ID: CV0091B-CSSAMPLE COLLECTION TIME: 14:25

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

backyardCollection: Composite or GrabMS/MSD? Y or NField Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: CV0091B-CSDGPS Coordinates: Trimble [☐] Instrument #: 010593 Logged? Y or NAliquot #1: Latitude: 33.55731273 N Longitude: 86.80463108 WMedia description: black silty clay, damp w/ coal fragmentsAliquot #2 Latitude: 33.55731279 N Longitude: 86.80451696 WMedia description: black silty clay, damp w/ coal fragmentsAliquot #3: Latitude: 33.55726769 N Longitude: 86.80460705 WMedia description: black silty clay, damp w/ coal fragmentsAliquot #4: Latitude: 33.55728457 N Longitude: 86.80461265 WMedia description: black silty clay, damp w/ coal fragmentsAliquot #5: Latitude: 33.55724732 N Longitude: 86.80452113 WMedia description: black silty clay, damp w/ coal fragments



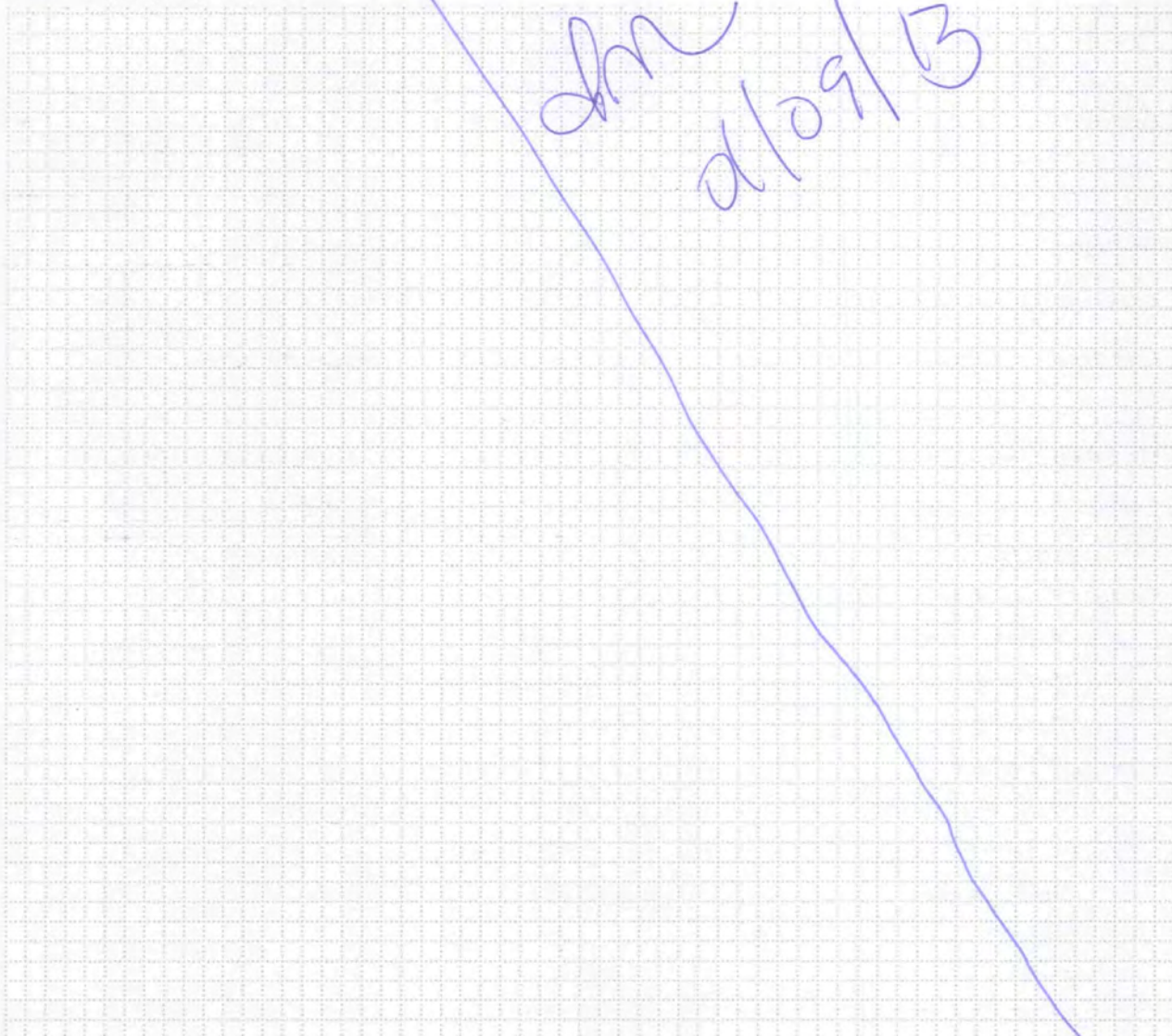
ADDRESS: \_\_\_\_\_ PROPERTY ID: \_\_\_\_\_

DATE: \_\_\_\_\_ ARRIVAL TIME: \_\_\_\_\_

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

Grid for property sketch



STATION ID: CV-0091 SAMPLE ID: CV0091C-CS

SAMPLE COLLECTION TIME: 14:15

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

side yard (3 pt composite due to size)

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_

GPS Coordinates: Trimble [ ☒ ] Instrument #: 018593 Logged? Y or N

Aliquot #1: Latitude: 33.55731039 N Longitude 86.80482763 W

Media description: black silty clay, damp w/ gravel

Aliquot #2 Latitude: 33.55731744 N Longitude 86.80475315 W

Media description: black silty clay, damp w/ gravel

Aliquot #3: Latitude: 33.55732042 N Longitude 86.8046798 W

Media description: black silty clay, damp w/ gravel

Aliquot #4: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Media description: \_\_\_\_\_

Aliquot #5: Latitude: da N Longitude \_\_\_\_\_ W

Media description: \_\_\_\_\_

STATION ID: \_\_\_\_\_ SAMPLE ID: \_\_\_\_\_

SAMPLE COLLECTION TIME: \_\_\_\_\_

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_

GPS Coordinates: Trimble [ ] Instrument #: \_\_\_\_\_ Logged? Y or N

Aliquot #1: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Media description: \_\_\_\_\_

Aliquot #2 Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Media description: \_\_\_\_\_

Aliquot #3: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Media description: \_\_\_\_\_

Aliquot #4: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Media description: \_\_\_\_\_

Aliquot #5: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Media description: \_\_\_\_\_



ADDRESS (b) (6)

PROPERTY ID: CV-0174

DATE: 01/09/13

ARRIVAL TIME: 14:45

Other pertinent information (weather conditions, etc.):

~60°F, cloudy

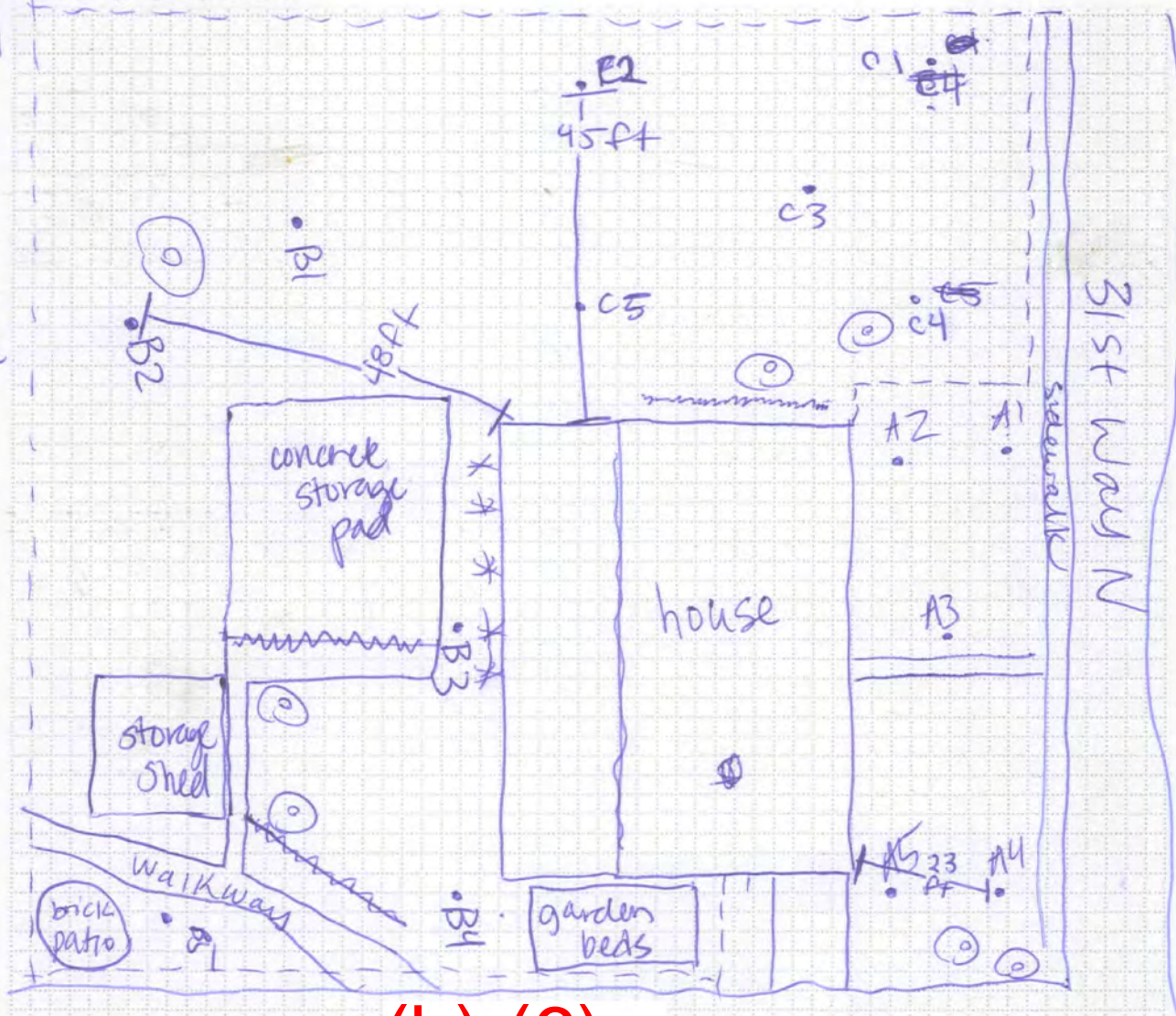
PROPERTY COMMENTS:

front yard: built up, garden beds in back - owner brought in clean soil last year, residential house

Front yard:  
= 93  
28

Grid for property sketch

↑ N  
--- = rocks  
⊙ = trees  
--- = fence



(b) (6)



STATION ID: CV-0174SAMPLE ID: CV-0174A-CSSAMPLE COLLECTION TIME: 1510

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

front yardCollection: Composite or GrabMS/MSD? Y or NField Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_

GPS Coordinates:	Trimble <input checked="" type="checkbox"/>	Instrument #:	<u>018593</u>	Logged?	<u>Y</u> or N
Aliquot #1:	Latitude:	<u>33.55850581</u>	N Longitude	<u>86.80413893</u>	W
	Media description:	<u>black silty clay, damp w/ coal fragments</u>			
Aliquot #2:	Latitude:	<u>33.55850773</u>	N Longitude	<u>86.80418225</u>	W
	Media description:	<u>black silty clay, damp w/ coal fragments</u>			
Aliquot #3:	Latitude:	<u>33.55841682</u>	N Longitude	<u>86.80416087</u>	W
	Media description:	<u>black silty clay, damp w/ coal fragments</u>			
Aliquot #4:	Latitude:	<u>33.55831309</u>	N Longitude	<u>86.80414751</u>	W
	Media description:	<u>black silty clay, damp w/ coal fragments</u>			
Aliquot #5:	Latitude:	<u>33.55830955</u>	N Longitude	<u>86.80419534</u>	W
	Media description:	<u>black silty clay, damp w/ coal fragments</u>			

STATION ID: CV-0174SAMPLE ID: CV-0174B-CSSAMPLE COLLECTION TIME: 1535

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

back yardCollection: Composite or GrabMS/MSD? Y or NField Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_

GPS Coordinates:	Trimble <input checked="" type="checkbox"/>	Instrument #:		Logged?	Y or N
Aliquot #1:	Latitude:	<u>33.55850557</u>	N Longitude	<u>86.804136842</u>	W
	Media description:	<u>black silty clay, damp w/ coal fragments</u>			
Aliquot #2:	Latitude:	<u>33.55856462</u>	N Longitude	<u>86.80446261</u>	W
	Media description:	<u>black silty clay, damp w/ coal fragments</u>			
Aliquot #3:	Latitude:	<u>33.55845164</u>	N Longitude	<u>86.80439621</u>	W
	Media description:	<u>black silty clay, damp w/ coal fragments</u>			
Aliquot #4:	Latitude:	<u>33.55830193</u>	N Longitude	<u>86.80434703</u>	W
	Media description:	<u>black silty clay, damp w/ coal fragments</u>			
Aliquot #5:	Latitude:	<u>33.55836352</u>	N Longitude	<u>86.80445336</u>	W
	Media description:	<u>33.55836352 am black silty clay, damp w/ coal fragments</u>			



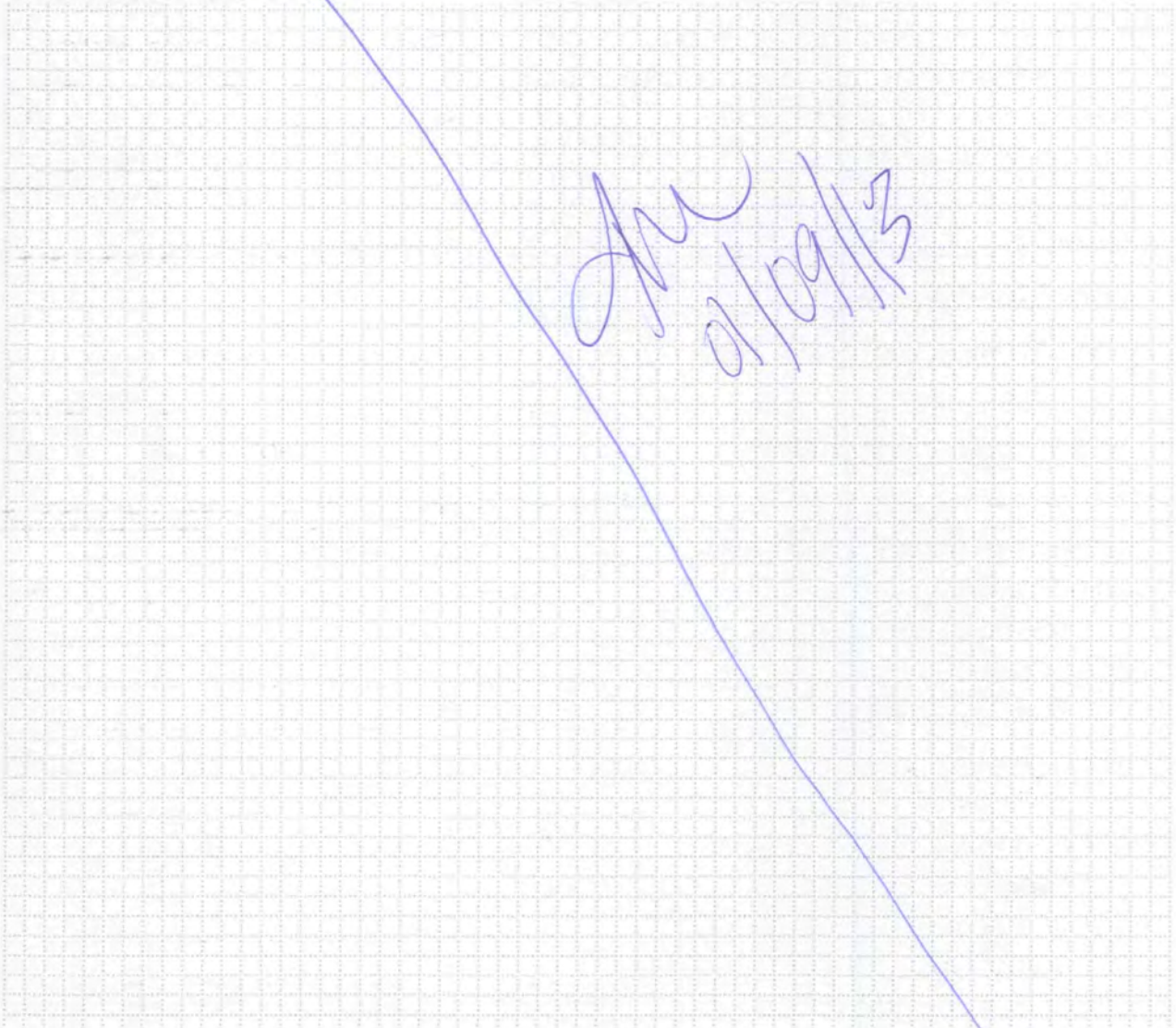
ADDRESS: \_\_\_\_\_ PROPERTY ID: \_\_\_\_\_

DATE: \_\_\_\_\_ ARRIVAL TIME: \_\_\_\_\_

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

Grid for property sketch



STATION ID: CV-0174SAMPLE ID: CV0174C-CSSAMPLE COLLECTION TIME: 15:45

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

side yardCollection: Composite or GrabMS/MSD? Y or NField Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_GPS Coordinates: Trimble ☒ Instrument #: 018593 Logged? Y or NAliquot #1: Latitude: 33.55863927 N Longitude: 86.80416605 WMedia description: black silty clay, damp w/ coal fragmentsAliquot #2 Latitude: 33.55864076 N Longitude: 86.80432802 WMedia description: black silty clay, damp w/ coal fragmentsAliquot #3: Latitude: 33.55859653 N Longitude: 86.80424926 WMedia description: black silty clay, damp w/ coal fragmentsAliquot #4: Latitude: 33.55854458 N Longitude: 86.80417012 WMedia description: black silty clay, damp w/ coal fragmentsAliquot #5: Latitude: 33.55854948 N Longitude: 86.80431899 WMedia description: black silty clay, damp w/ coal fragments

STATION ID: \_\_\_\_\_

SAMPLE ID: \_\_\_\_\_

SAMPLE COLLECTION TIME: \_\_\_\_\_

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_

GPS Coordinates: Trimble ☐ Instrument #: \_\_\_\_\_ Logged? Y or N

Aliquot #1: Latitude: \_\_\_\_\_ N Longitude: \_\_\_\_\_ W

Media description: \_\_\_\_\_

Aliquot #2 Latitude: \_\_\_\_\_ N Longitude: \_\_\_\_\_ W

Media description: \_\_\_\_\_

Aliquot #3: Latitude: \_\_\_\_\_ N Longitude: \_\_\_\_\_ W

Media description: \_\_\_\_\_

Aliquot #4: Latitude: \_\_\_\_\_ N Longitude: \_\_\_\_\_ W

Media description: \_\_\_\_\_

Aliquot #5: Latitude: \_\_\_\_\_ N Longitude: \_\_\_\_\_ W

Media description: \_\_\_\_\_



ADDRESS: (b) (6)

PROPERTY ID: CV-0533

DATE: 01/10/13

ARRIVAL TIME: 09:00

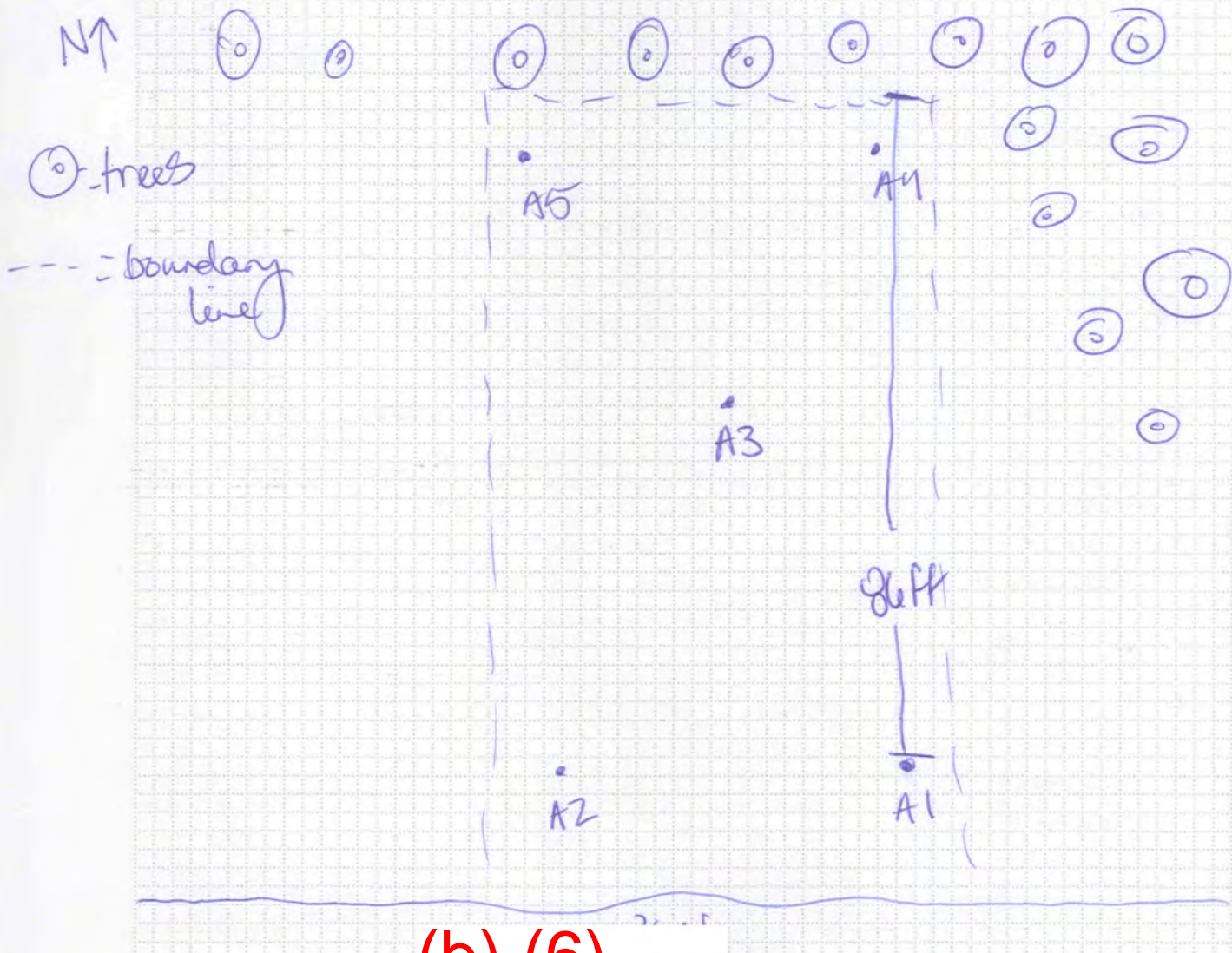
Other pertinent information (weather conditions, etc.):

cloudy, ~60°F

PROPERTY COMMENTS:

empty lot, only one sample collected from property

Grid for property sketch



(b) (6)

STATION ID: CV-0533SAMPLE ID: CV0533A-CSSAMPLE COLLECTION TIME: ~~09:10~~ 09:10

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

empty lotCollection: Composite or GrabMS/MSD? Y or NField Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_GPS Coordinates: Trimble [ ☒ ] Instrument #: 08600Logged? Y or NAliquot #1: Latitude: 33.56203988 N Longitude 86.79912751 WMedia description: dark brown silty clay, damp w/ gravelAliquot #2 Latitude: 33.56208677 N Longitude 86.79918804 WMedia description: dark brown silty clay, damp w/ gravelAliquot #3: Latitude: 33.56214208 N Longitude 86.79907743 WMedia description: dark brown silty clay, damp w/ gravelAliquot #4: Latitude: 33.56223016 N Longitude 86.79898551 WMedia description: dark brown silty clay, damp w/ gravelAliquot #5: Latitude: 33.56225379 N Longitude 86.79902565 WMedia description: dark brown silty clay, damp w/ gravel

STATION ID: \_\_\_\_\_

SAMPLE ID: \_\_\_\_\_

SAMPLE COLLECTION TIME: \_\_\_\_\_

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_

GPS Coordinates: Trimble [ ] Instrument #: \_\_\_\_\_

Logged? Y or N

Aliquot #1: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Media description: \_\_\_\_\_

Aliquot #2 Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Media description: \_\_\_\_\_

Aliquot #3: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Media description: \_\_\_\_\_

Aliquot #4: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Media description: \_\_\_\_\_

Aliquot #5: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Media description: \_\_\_\_\_



ADDRESS: (b) (6)

DATE: 9/10/13

PROPERTY ID: CV-0076

ARRIVAL TIME: 09:30

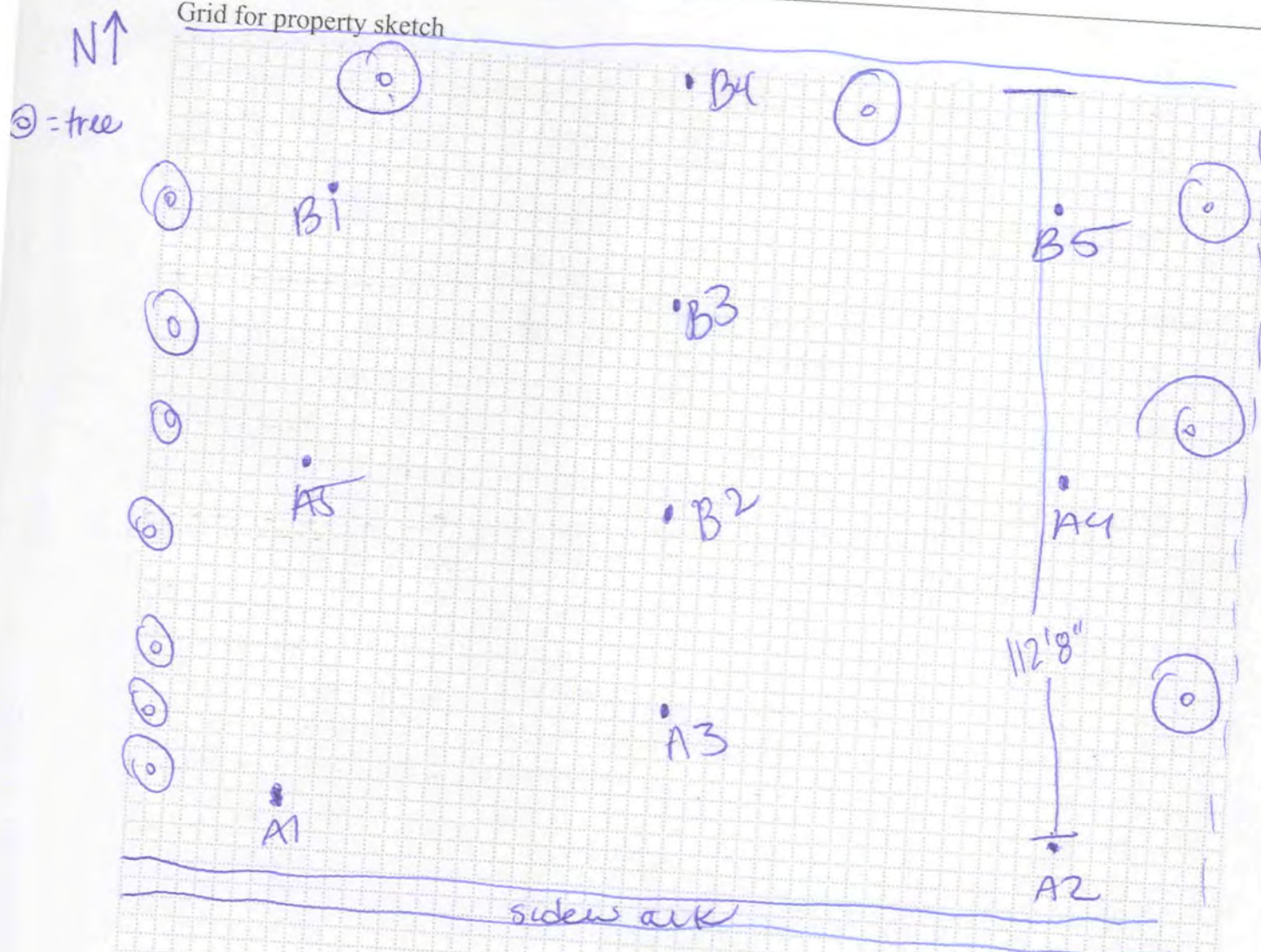
Other pertinent information (weather conditions, etc.):

cloudy, ~60°F

PROPERTY COMMENTS:

empty lot

Grid for property sketch



(b) (6)

STATION ID: CV-0076 SAMPLE ID: CV0076A-CS

SAMPLE COLLECTION TIME: 1055

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

front half of lot

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_

GPS Coordinates: Trimble ☒ Instrument #: 018600 Logged? Y or N

Aliquot #1: Latitude: 33.55411900 N Longitude 86.80091002 W

Media description: dark brown silty clay, damp

Aliquot #2 Latitude: 33.55408528 N Longitude 86.80078460 W

Media description: dark brown silty clay, damp

Aliquot #3: Latitude: 33.55410650 N Longitude 86.80087205 W

Media description: dark brown silty clay, damp

Aliquot #4: Latitude: 33.55422148 N Longitude 86.80090717 W

Media description: dark brown silty clay, damp

Aliquot #5: Latitude: 33.55423565 N Longitude \_\_\_\_\_ W

Media description: dark brown silty clay, damp

STATION ID: CV-0076 SAMPLE ID: CV0076B-CS

SAMPLE COLLECTION TIME: 11:05

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

back lot of back half of lot

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_

GPS Coordinates: Trimble ☒ Instrument #: 018600 Logged? Y or N

Aliquot #1: Latitude: 33.55430272 N Longitude 86.80091292 W

Media description: dark brown silty clay, damp

Aliquot #2 Latitude: 33.55423487 N Longitude 86.80085784 W

Media description: dark brown silty clay, damp

Aliquot #3: Latitude: 33.55430957 N Longitude 86.80085935 W

Media description: dark brown silty clay, damp

Aliquot #4: Latitude: 33.55438871 N Longitude 86.80085384 W

Media description: dark brown silty clay, damp

Aliquot #5: Latitude: 33.55432790 N Longitude 86.80078308 W

Media description: dark brown silty clay, damp



**ADDRESS:**

PROPERTY ID:

DATE: \_\_\_\_\_

ARRIVAL TIME:

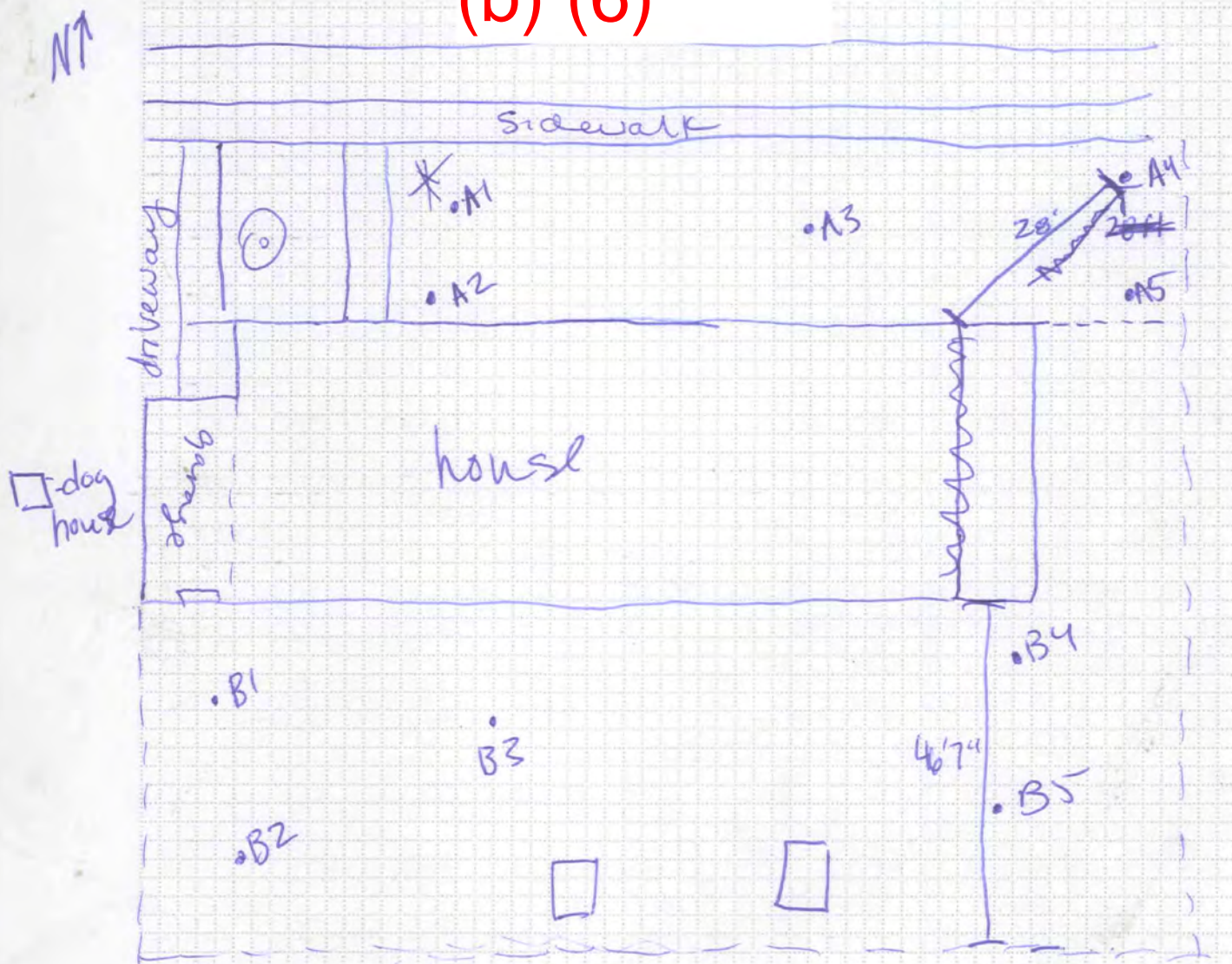
**Other pertinent information (weather conditions, etc.):**

~60°F, cloudy

**PROPERTY COMMENTS:**

resident house

Grid for property sketch





STATION ID: CV-0504 SAMPLE ID: CV0504A-CS

SAMPLE COLLECTION TIME: 10:10

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

front yard

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_

GPS Coordinates: Trimble <input checked="" type="checkbox"/> Instrument #: <u>018660</u> Logged? <u>Y</u> or N	
Aliquot #1: Latitude: <u>33.55696854</u>	N Longitude <u>86.80733495</u> W
Media description: <u>blackish dark brown silty clay, damp</u>	
Aliquot #2 Latitude: <u>33.55692218</u>	N Longitude <u>86.80734884</u> W
Media description: <u>dark brown silty clay, damp</u>	
Aliquot #3: Latitude: <u>33.55694068</u>	N Longitude <u>86.80731021</u> W
Media description: <u>dark brown silty clay, damp</u>	
Aliquot #4: Latitude: <u>33.55696892</u>	N Longitude <u>86.80728345</u> W
Media description: <u>dark brown silty clay, damp</u>	
Aliquot #5: Latitude: <u>33.55691978</u>	N Longitude <u>86.80728903</u> W
Media description: <u>dark brown silty clay, damp</u>	

STATION ID: CV0504 SAMPLE ID: CV0504B-CS

SAMPLE COLLECTION TIME: 10:25

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

back yard

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_

GPS Coordinates: Trimble <input checked="" type="checkbox"/> Instrument #: <u>018660</u> Logged? <u>Y</u> or N	
Aliquot #1: Latitude: <u>33.55677954</u>	N Longitude <u>86.8074477</u> W
Media description: <u>dark brown silty clay, damp</u>	
Aliquot #2 Latitude: <u>33.55672681</u>	N Longitude <u>86.80744110</u> W
Media description: <u>dark brown silty clay, damp</u>	
Aliquot #3: Latitude: <u>33.55674409</u>	N Longitude <u>86.80736595</u> W
Media description: <u>dark brown silty clay, damp</u>	
Aliquot #4: Latitude: <u>33.55676855</u>	N Longitude <u>86.80728988</u> W
Media description: <u>dark brown silty clay, damp</u>	
Aliquot #5: Latitude: <u>33.55670391</u>	N Longitude <u>86.80729129</u> W
Media description: <u>dark brown silty clay, damp</u>	



(b) (6)

ADDRESS

PROPERTY ID: HP-0485

DATE: 01/10/13

ARRIVAL TIME: 14:00

Other pertinent information (weather conditions, etc.):

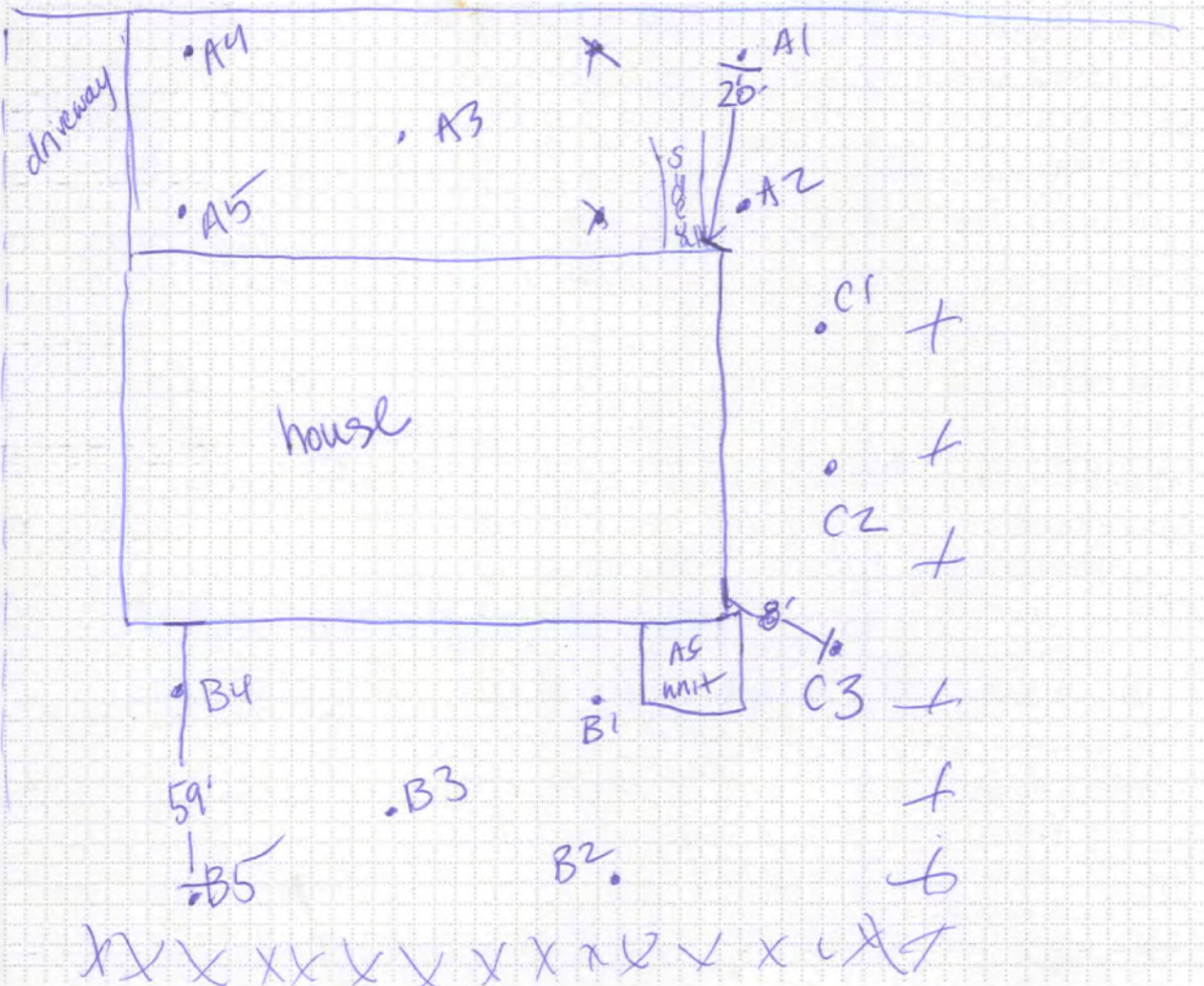
~68°F, cloudy

PROPERTY COMMENTS:

residential house

Grid for property sketch

(b) (6)





STATION ID: HP-0085SAMPLE ID: HP0085A-CSSAMPLE COLLECTION TIME: 14:00

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

front yardCollection: Composite or GrabMS/MSD? Y or NField Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_GPS Coordinates: Trimble ☒ Instrument # 018600 Logged? Y or NAliquot #1: Latitude: 33.56494755 N Longitude 86.79530485 WMedia description: dark brown silty clay, damp w/ trace gravelsAliquot #2 Latitude: 33.56492764 N Longitude 86.79530563 WMedia description: dark brown silty clay, damp w/ trace gravelsAliquot #3: Latitude: 33.56494563 N Longitude 86.79525073 WMedia description: dark brown silty clay, damp w/ trace gravelsAliquot #4: Latitude: 33.56494358 N Longitude 86.79520042 WMedia description: dark brown silty clay, damp w/ trace gravelsAliquot #5: Latitude: 33.56490782 N Longitude 86.79520844 WMedia description: dark brown silty clay, damp w/ trace gravelsSTATION ID: HP-0085SAMPLE ID: HP0085 B-CSSAMPLE COLLECTION TIME: 14:30

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

back yardCollection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_

GPS Coordinates: Trimble ☒ Instrument #: 018600 Logged? Y or NAliquot #1: Latitude: 33.56473972 N Longitude 86.79523215 WMedia description: light brown silty clay, dampAliquot #2 Latitude: 33.56463738 N Longitude 86.79524133 WMedia description: dark brown silty clay, dampAliquot #3: Latitude: 33.56469018 N Longitude 86.79528042 WMedia description: dark brown silty clay, dampAliquot #4: Latitude: 33.56473895 N Longitude 86.79531761 WMedia description: dark brown silty clay, dampAliquot #5: Latitude: 33.56464995 N Longitude 86.79531562 WMedia description: dark brown silty clay, damp



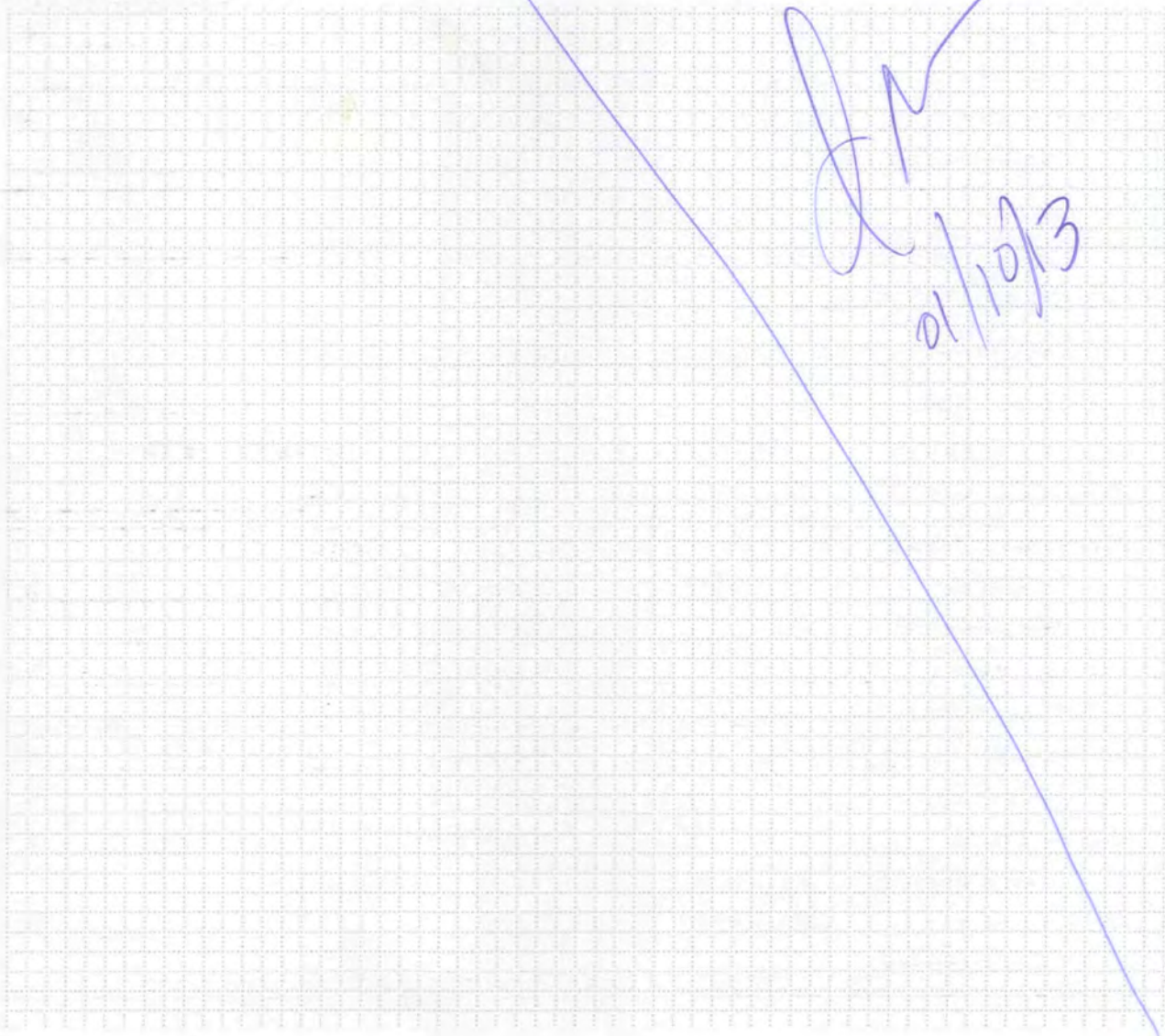
ADDRESS: \_\_\_\_\_ PROPERTY ID: \_\_\_\_\_

DATE: \_\_\_\_\_ ARRIVAL TIME: \_\_\_\_\_

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

Grid for property sketch



STATION ID: HP-0085 SAMPLE ID: HP0085C-CS

SAMPLE COLLECTION TIME: 1415

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Side yard, 3pt composite  
Collection: Composite or Grab MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_

GPS Coordinates: Trimble ☒ Instrument #: 0106000 Logged? Y or N

Aliquot #1: Latitude: 33.56487014 N Longitude 86.79521107 W

Media description: dark brown silty clay, damp w/ coal fragments & gravel

Aliquot #2 Latitude: 33.56481560 N Longitude 86.79524608 W

Media description: dark brown silty clay, damp w/ coal fragments & gravel

Aliquot #3: Latitude: 33.56477558 N Longitude 86.79521585 W

Media description: dark brown silty clay, damp w/ coal fragments & gravel

Aliquot #4: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Media description: \_\_\_\_\_

Aliquot #5: Latitude: \_\_\_\_\_ N Longitude don't know W

Media description: \_\_\_\_\_

STATION ID: \_\_\_\_\_ SAMPLE ID: \_\_\_\_\_

SAMPLE COLLECTION TIME: \_\_\_\_\_

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_

GPS Coordinates: Trimble ☐ Instrument #: \_\_\_\_\_ Logged? Y or N

Aliquot #1: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Media description: \_\_\_\_\_

Aliquot #2 Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Media description: \_\_\_\_\_

Aliquot #3: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Media description: \_\_\_\_\_

Aliquot #4: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Media description: \_\_\_\_\_

Aliquot #5: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Media description: \_\_\_\_\_







STATION ID: CV-0414SAMPLE ID: CV0414A-CSSAMPLE COLLECTION TIME: 1455

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

front yard, 3 pt compositeCollection: Composite or GrabMS/MSD? Y or NField Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_GPS Coordinates: Trimble [ ☒ ] Instrument #: 08600 Logged? Y or NAliquot #1: Latitude: 33.55890853 N Longitude: 86.79911406 WMedia description: black silty clay, damp w/ trace coal fragmentsAliquot #2: Latitude: 33.55889589 N Longitude: 86.79912000 WMedia description: black silty clay, damp w/ trace coal fragmentsAliquot #3: Latitude: 33.55893247 N Longitude: 86.79914511 WMedia description: black silty clay, damp w/ trace coal fragments

Aliquot #4: Latitude: \_\_\_\_\_ N Longitude: \_\_\_\_\_ W

Media description: \_\_\_\_\_

Aliquot #5: Latitude: \_\_\_\_\_ N Longitude: \_\_\_\_\_ W

Media description: \_\_\_\_\_

STATION ID: CV-0414SAMPLE ID: CV0414B-CSSAMPLE COLLECTION TIME: 1505

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

side yard and backyardCollection: Composite or GrabMS/MSD? Y or NField Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_GPS Coordinates: Trimble [ ☒ ] Instrument #: 08600 Logged? Y or NAliquot #1: Latitude: 33.55891036 N Longitude: 86.79916882 WMedia description: black silty clay, damp w/ trace coal fragmentsAliquot #2: Latitude: 33.55887629 N Longitude: 86.79920420 WMedia description: black silty clay, damp w/ trace coal fragmentsAliquot #3: Latitude: 33.55886351 N Longitude: 86.79924381 WMedia description: black silty clay, damp w/ trace coal fragmentsAliquot #4: Latitude: 33.55878573 N Longitude: 86.79928631 WMedia description: black silty clay, damp w/ trace coal fragmentsAliquot #5: Latitude: 33.55874591 N Longitude: 86.79932442 WMedia description: black silty clay, damp w/ trace coal fragments



ADDRESS: \_\_\_\_\_ PROPERTY ID: \_\_\_\_\_

DATE: \_\_\_\_\_ ARRIVAL TIME: \_\_\_\_\_

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

Grid for property sketch

OK  
01/10/13

NOTE: sample should be assigned to Property 10C V0803  
(parcel is adj to CV0414)

STATION ID: CV0414

SAMPLE ID: CV0414C-05

SAMPLE COLLECTION TIME: 15:20

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

side yard - fenced w/ parked car

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble ☒ Instrument #: 108600 Logged? ☒ Y or N

Aliquot #1: Latitude: 33.55879235 N Longitude: 86.79912793 W

Media description: dark brown silty clay, damp w/ gravel

Aliquot #2: Latitude: 33.55871656 N Longitude: 86.79920294 W

Media description: dark brown silty clay, damp w/ gravel

Aliquot #3: Latitude: 33.55875146 N Longitude: 86.79914229 W

Media description: dark brown silty clay, damp w/ gravel

Aliquot #4: Latitude: 33.5587056 N Longitude: 86.79910057 W

Media description: dark brown silty clay, damp w/ gravel

Aliquot #5: Latitude: 33.55870303 N Longitude: 86.79918254 W

Media description: dark brown silty clay, damp w/ gravel

STATION ID:

SAMPLE ID:

SAMPLE COLLECTION TIME:

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble ☐ Instrument #: 108600 Logged? ☐ Y or N

Aliquot #1: Latitude: N Longitude: W

Media description:

Aliquot #2: Latitude: N Longitude: W

Media description:

Aliquot #3: Latitude: N Longitude: W

Media description:

Aliquot #4: Latitude: N Longitude: W

Media description:

Aliquot #5: Latitude: N Longitude: W

Media description:



ADDRESS: (b) (6)

DATE: 01/04/13

PROPERTY ID: HP-0188

ARRIVAL TIME: 0830

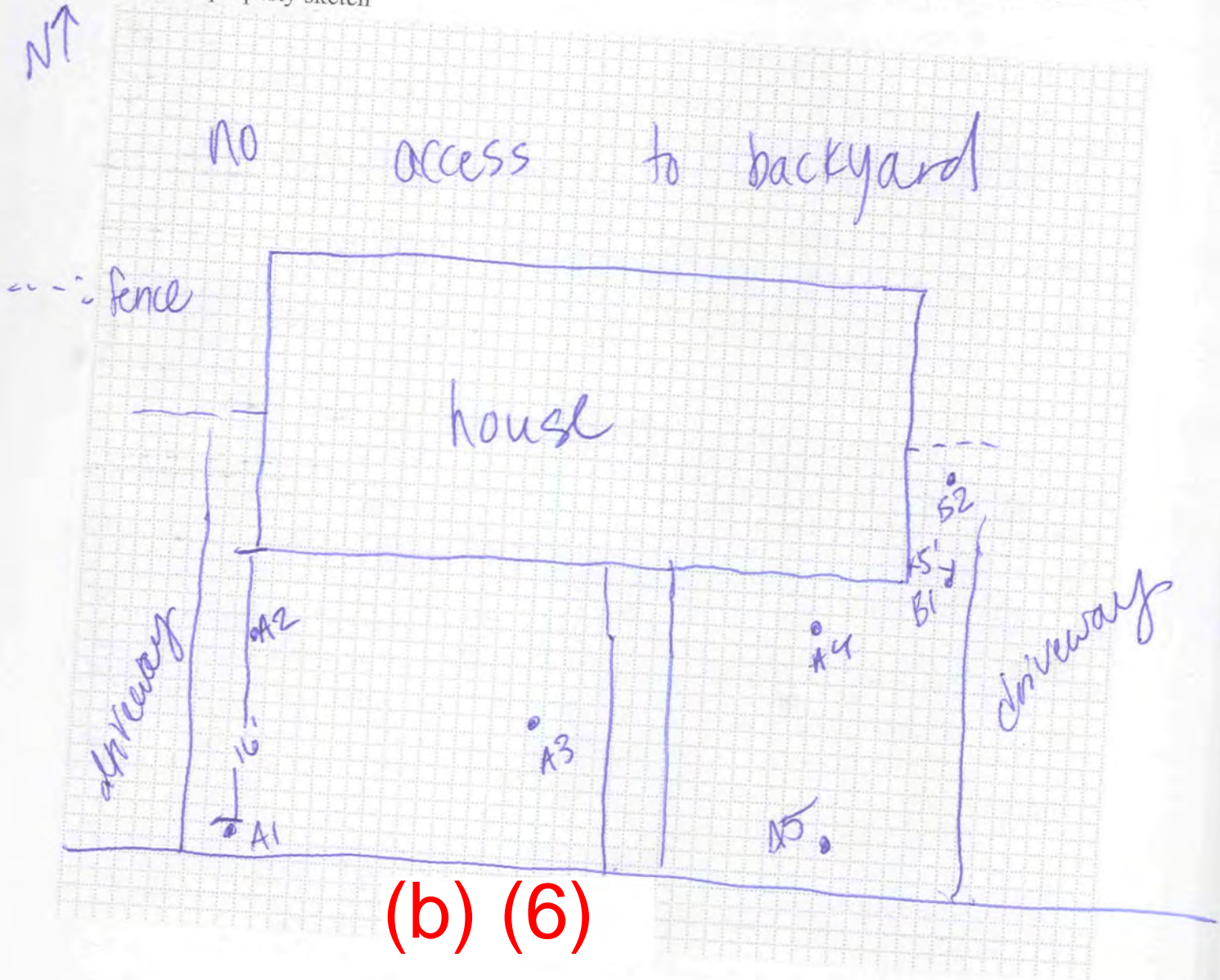
Other pertinent information (weather conditions, etc.):

~partly cloudy, 65°F

PROPERTY COMMENTS:

residential house; no access to backyard due to a number of dogs in back

Grid for property sketch





STATION ID: HP-0188SAMPLE ID: HP0188A-CSSAMPLE COLLECTION TIME: 0855

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

front yardCollection: Composite or GrabMS/MSD? Y or NField Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_GPS Coordinates: Trimble [☒] Instrument #: 018600 Logged? Y or NAliquot #1: Latitude: 33.56583200 N Longitude 86.79201281 WMedia description: black silty clay, damp w/ coal fragments & trace debrisAliquot #2 Latitude: 33.50585808 N Longitude 86.79201203 WMedia description: black silty clay, damp w/ coal fragments & trace debrisAliquot #3: Latitude: 33.50583769 N Longitude 86.79197503 WMedia description: black silty clay, damp w/ coal fragments & trace debrisAliquot #4: Latitude: 33.56581761 N Longitude 86.79192452 WMedia description: black silty clay, damp w/ coal fragments & trace debrisAliquot #5: Latitude: 33.56585183 N Longitude 86.79192229 WMedia description: black silty clay, damp w/ coal fragments & trace debrisSTATION ID: HP0188SAMPLE ID: HP0188B-CSSAMPLE COLLECTION TIME: 0905

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

side yard, 2 pt compositeCollection: Composite or GrabMS/MSD? Y or NField Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_GPS Coordinates: Trimble [☒] Instrument #: 018600 Logged? Y or NAliquot #1: Latitude: 33.56590305 N Longitude 86.79189940 WMedia description: black silty clay, damp w/ coal fragments & trace debrisAliquot #2 Latitude: 33.50592954 N Longitude 86.79188128 WMedia description: black silty clay, damp w/ coal fragments & trace debris

Aliquot #3: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Media description: \_\_\_\_\_

Aliquot #4: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Media description: \_\_\_\_\_

Aliquot #5: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Media description: \_\_\_\_\_



Nothing to follow until photolog @ end of logbook.

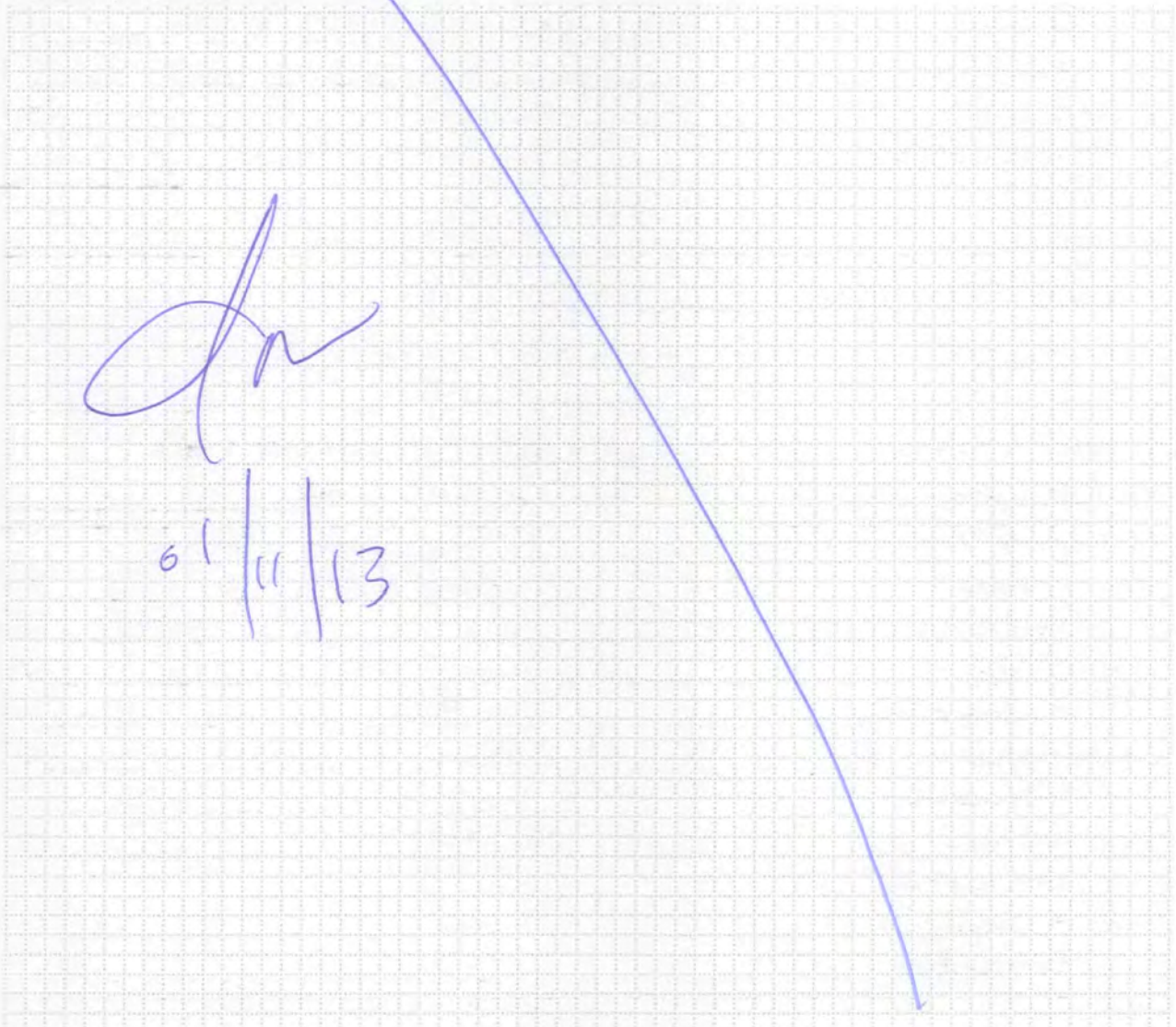
ADDRESS: \_\_\_\_\_ PROPERTY ID: \_\_\_\_\_

DATE: \_\_\_\_\_ ARRIVAL TIME: \_\_\_\_\_

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

Grid for property sketch



The remaining pages in this logbook are  
blank and have not been scanned.